

THE HEMIPTERIST

A JOURNAL ON THE NATURAL HISTORY
OF THE HEMIPTERA OF THE BRITISH ISLES



Volume 4 (2017)

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Cover photograph: *Aradus depressus* (Fabricius) (Hemiptera: Aradidae).

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A SPECIAL INDEX FOR THE HETEROPTERA STUDY GROUP NEWSLETTER

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Introduction

The following special index was compiled manually from paper copies of the 14 issues of the Heteroptera Study Group Newsletter, which appeared between September 1983 and March 1999. The index is 'special' in the sense that it deals only with the names of the bugs. No other aspects are indexed, and only British species are included. The nomenclature and ordering of species is the same as that used in Ryan (2014), and synonyms have been resolved using that work. Other synonyms that appeared in the Newsletter are cited in the index. Confusions over identity (Ryan, 2015) have not been resolved. So, for example, references to *Psallus betuleti* (Fallén) (Miridae) have been indexed against that name, even though the text might in fact be referring to *Psallus montanus* Josifov. However, in the case of the confusion over *Plagiognathus albipennis* (Fallén) (Miridae), where this species was deleted from the British list, references to it have been indexed against both the new species, *Europiella artemisiae* (Becker) and *Europiella decolor* (Uhler).

The format of the page numbering is the digital number of the issue, followed by the digital page number within the issue, separated by a hyphen. So, for example, page 12 of issue 7 is written 7-12. Supplements to the issues have been labelled with capital letters, which prefix the page number. Hence, page 4 of supplement B of issue 3 is written 3-B4. A list of the issues and their supplements is given in the Appendix.

Portable document format (PDF) copies of the issues of the Newsletter can be downloaded from the British Bugs website (<http://www.britishbugs.org.uk/HetNews.html>). I very much hope that this special index will make the Newsletters more accessible to those interested in these old articles on the British Hemiptera-Heteroptera.

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Nabis limbatus Dahlbom [*Nabacula limbata*]: 1-8; 1-12; 1-14; 3-11; 4-A9; 7-A3; 10-9; 10-11; 11-6; 11-10; 12-12; 13-12.
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Phytocoris insignis Reuter: 1-5; 1-22; 3-D5; 3-C1; 3-C3; 4-A8; 6-6; 8-10.

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- Phytocoris longipennis* Flor: 1-13; 1-22; 3-C2; 3-C4; 5-7; 6-6; 10-11; 11-6; 11-10; 12-11; 12-13.
Phytocoris pini Kirschbaum: 1-18; 1-22; 3-C1; 3-C4; 10-11; 11-6; 12-11; 12-12.
Phytocoris populi (Linnaeus): 1-22; 3-C2; 6-6.
Phytocoris reuteri Saunders: 1-13; 1-22; 3-C1; 3-C2; 3-C4; 5-7; 6-6.
Phytocoris tiliae (Fabricius): 1-12; 1-22; 3-C2; 3-C4; 5-7; 11-7; 12-13.
Phytocoris ulmi (Linnaeus): 1-12; 3-C3; 3-C4; 6-6.
Phytocoris varipes Boheman: 1-12; 3-C3; 6-6; 11-10.
Pilophorus clavatus (Linnaeus): 6-6; 8-10; 10-10; 10-12; 11-7.
Pilophorus confusus (Kirschbaum): 1-4; 3-D5; 3-F2; 8-10.
Pilophorus perplexus Douglas & Scott: 4-5.
Pinalitus atomarius (Meyer-Dür): 6-6.
Pinalitus cervinus (Herrich-Schaeffer): 1-12; 1-16; 3-7; 3-D2; 5-7; 6-6; 10-11; 11-6; 11-10; 12-13.
Pinalitus rubricatus (Fallén): 1-16; 6-6; 10-12; 11-7; 12-13.
Pinalitus viscicola (Puton): 6-8; 7-5; 14-6.
Pithanus maerkelii (Herrich-Schaeffer): 1-16; 6-3; 10-11; 11-6; 12-12.
Placochilus seladonicus (Fallén): 1-4; 3-4; 3-D4; 4-A6; 6-6; 8-10; 9-2; 9-3; 10-3; 12-8; 12-9; 13-6.
Plagiognathus arbustorum (Fabricius): 1-8; 1-12; 1-15; 3-11; 5-4; 10-9; 10-11; 11-6; 11-10; 12-12.
Plagiognathus chrysanthemi (Wolff): 1-12; 1-15; 10-9; 10-11; 11-6; 11-10; 12-12.
Platycranus bicolor (Douglas & Scott): 1-13; 3-6; 4-4.
Plesiodema pinetella (Zetterstedt): 1-18; 4-D2; 4-D3; 10-12; 11-7; 11-2; 12-13.
Polymerus nigrita (Fallén): 10-12; 11-7; 12-13.
Polymerus palustris (Reuter): 3-8; 3-D3; 8-10; 11-2; 11-10.
Polymerus unifasciatus (Fabricius): 1-18; 3-8; 3-D3; 10-11; 11-6; 11-10; 12-12.
Polymerus vulneratus (Panzer): 1-4; 6-6; 8-10.
Psallodema fieberi (Fieber): 4-A9; 7-4; 11-8; 11-10.
Psallus albicinctus (Kirschbaum): 1-5; 3-5; 4-A8; 4-D4; 4-D5; 4-D7; 5-7; 6-6; 8-10.
Psallus ambiguus (Fallén): 1-13; 1-15; 3-4; 4-D1; 4-D2; 4-D6; 4-D7; 6-6; 10-12; 11-7; 11-14; 12-12; 13-12.
Psallus assimilis Stichel: 1-12; 4-A6; 4-D3; 4-D4; 4-D6; 5-2; 6-6; 6-8.
Psallus betuleti (Fallén): 1-8; 1-12; 1-15; 3-4; 3-D4; 4-D1; 4-D2; 4-D6; 5-7; 10-12; 11-7; 11-14.
Psallus confusus Rieger: 1-12; 3-4; 4-D4; 4-D5; 4-D6; 4-D7; 5-7; 6-6; 10-11; 11-6; 12-13.
Psallus falleni Reuter: 1-12; 1-15; 3-4; 4-D1; 4-D2; 4-D6; 5-6; 6-6; 10-11; 11-6; 11-14; 12-11; 12-13.
Psallus flavellus Stichel: 1-12; 4-D2; 4-D6; 6-6; 10-12; 11-7; 12-13.
Psallus haematodes (Gmelin): 1-12; 1-15; 3-4; 4-D3; 4-D7; 4-A10; 10-11; 11-6; 11-10; 12-12.
Psallus lepidus Fieber: 1-12; 1-15; 4-D2; 4-D6; 10-12; 11-7; 12-13.
Psallus luridus Reuter [*Pityopsallus*]: 3-5; 4-D2; 4-D6; 6-6; 10-12; 11-7.
Psallus mollis (Mulsant & Rey): 1-5; 1-18; 3-4; 4-A8; 4-A10; 4-D4; 4-D5; 4-D7; 5-7; 6-6; 12-13.
Psallus perrisi (Mulsant & Rey): 1-12; 3-4; 4-A6; 4-D3; 4-D6; 4-D7; 5-7; 6-6; 10-12; 11-7.
Psallus pseudoplatani Reichling: 5-2; 6-8; 7-5.
Psallus quercus (Kirschbaum): 4-A6; 4-A8; 4-D3; 4-D4; 4-D7; 5-7.
Psallus salicis (Kirschbaum) [*scholtzi*]: 3-4; 4-A10; 4-D2; 4-D6; 6-8; 11-14.
Psallus variabilis (Fallén): 1-15; 3-4; 4-A6; 4-A8; 4-D3; 4-D4; 4-D6; 4-D7; 5-2; 6-8; 10-12; 11-6; 12-11.
Psallus varians (Herrich-Schaeffer): 1-12; 1-15; 4-D3; 4-D4; 4-D5; 4-D7; 5-6; 10-12; 11-7; 12-13.
Psallus wagneri Ossiannilsson: 1-12; 3-4; 4-A6; 4-D3; 4-D6; 4-D7; 5-7; 6-6.
Pseudoloxops coccineus (Meyer-Dür): 1-13; 4-4.
Rhabdomiris striatellus (Fabricius): 5-5.
Salicarus roseri (Herrich-Schaeffer): 1-13; 3-5.
Stenodema calcarata (Fallén): 1-8; 1-13; 1-16; 3-11; 5-5; 10-11; 11-6; 11-10; 12-12.
Stenodema holsata (Fabricius): 1-16; 3-8; 3-11; 3-11a; 3-D4; 6-3; 10-9; 10-11; 11-6; 12-12.
Stenodema laevigata (Linnaeus): 1-8; 1-13; 1-16; 10-12; 11-6; 11-10; 12-11.
Stenodema trispinosa Reuter: 3-8; 3-D3; 5-5; 6-6; 8-10; 14-5.

MIRIDAE (CONTINUED)

- Stenotus binotatus* (Fabricius): 1-13; 11-10; 12-11; 12-13; 13-12.
Sthenarus rotermundi (Scholtz): 1-13; 4-4; 11-10.
Strongylocoris leucocephalus (Linnaeus): 3-6; 12-13.
Strongylocoris luridus (Fallén): 8-10; 14-5.
Systellonotus triguttatus (Linnaeus): 7-4; 8-10; 12-9; 14-4.
Teratocoris antennatus (Boheman): 4-4.
Teratocoris caricis Kirkaldy: 1-5; 1-18; 3-9; 3-D6; 4-A6; 4-A9; 8-10; 10-10; 10-12; 11-7; 12-2; 12-9; 12-11; 13-6.
Teratocoris saundersi Douglas & Scott: 1-16; 6-3; 10-11; 11-6; 12-11; 12-12.
Teratocoris viridis Douglas & Scott: 1-16; 1-18; 10-12; 11-7; 12-13.
Trigonotylus caelestialium (Kirkaldy): 7-5; 10-3; 12-2; 12-3; 13-4; 13-6.
Trigonotylus psammaecolor Reuter: 3-8; 3-D3; 6-6; 8-10; 11-8; 11-10; 12-9.
Trigonotylus ruficornis (Geoffroy): 1-13; 1-16; 3-8; 10-11; 11-6; 12-2; 12-12.
Tupiocoris rhododendri (Dolling) [*Dicyphus*, *Neodicyphus*]: 1-5; 1-13; 3-6; 3-D3; 3-D4; 4-A6; 4-A9; 5-E1; 5-E3; 5-E4; 12-5.
Tuponia mixticolor (A. Costa) [*carayoni*]: 1-4; 3-4; 3-D4; 3-F2; 4-A6; 6-1; 6-6; 8-10; 11-4; 14-5.
Tyththus pubescens (Knight): 1-5; 6-6; 8-9; 12-9; 14-4.
Tyththus pygmaeus (Zetterstedt): 3-4; 12-13.
Zygimus nigriceps (Fallén): 1-5; 1-18; 3-8; 3-D4; 3-D6; 6-6; 8-10.

CERATOCOMBIDAE

- Ceratocombus coleopratus* (Zetterstedt): 14-7.

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- Cryptostemma alienum* Herrich-Schaeffer: 1-16; 1-18; 6-3; 10-12; 11-6; 12-13; 14-7.
Pachycoleus waltli Fieber: 1-5; 4-A10; 8-10; 12-8; 14-4; 14-7.

SALDIDAE

- Chartoscirta cincta* (Herrich-Schaeffer): 1-13; 1-17; 10-11; 11-6; 11-9; 12-11; 14-8.
Chartoscirta elegantula (Fallén): 1-5; 1-17; 8-10; 13-7.
Halosalda lateralis (Fallén): 12-13.
Macrosaldula scotica (Curtis): 1-17; 1-18; 10-11; 11-6; 12-12.
Micracanthia marginalis (Fallén): 1-5; 8-10; 12-8; 14-3; 14-5.
Salda littoralis (Linnaeus): 1-16; 10-12; 11-6; 12-13.
Salda morio Zetterstedt: 1-16; 1-18; 11-2; 12-13; 14-5.
Salda muelleri (Gmelin): 1-16; 1-18; 10-10; 10-12; 11-7; 11-2; 12-13; 14-5; 14-6.
Saldula arenicola (Scholtz): 8-10; 10-3; 10-14; 11-2; 12-8; 14-3.
Saldula c-album (Fieber): 1-17; 1-18; 10-12; 11-6; 12-12.
Saldula fucicola (J. Sahlberg): 1-5; 1-17; 1-18; 3-D4; 4-A10; 8-10; 10-10; 10-12; 11-6; 10-14; 12-8; 12-11.
Saldula opacula (Zetterstedt): 1-5; 1-17; 1-18; 8-10; 9-3; 12-8; 14-4; 14-8.
Saldula orthochila (Fieber): 1-13; 1-17; 10-12; 11-7; 12-12.
Saldula pallipes (Fabricius): 1-13; 1-17; 3-D6; 4-A6; 10-14; 11-10; 14-8.
Saldula palustris (Douglas): 1-17; 3-D6; 4-4; 4-A6; 4-A8; 10-14; 12-13; 14-8.
Saldula pilosella (Thomson): 14-8.
Saldula saltatoria (Linnaeus): 1-12; 1-17; 3-12; 10-11; 11-6; 11-10; 12-12; 13-13; 14-8.
Saldula setulosa (Puton): 1-4; 8-10; 14-5.
Teloleuca pellucens (Fabricius): 1-5; 1-18; 8-10; 11-2.

AEPOPHILIDAE

- Aepophilus bonnairei* Signoret: 3-F3; 8-10; 10-14; 13-10; 14-4.

MESOVELIIDAE

- Mesovelis furcata* Mulsant & Rey: 6-7; 13-10; 13-13.

HEBRIDAE

- Hebrus pusillus* (Fallén): 8-10; 12-7; 14-2; 14-4.
Hebrus ruficeps Thomson: 7-3; 10-12; 11-7; 13-13.

HYDROMETRIDAE

- Hydrometra gracilenta* Horváth: 1-4; 8-10; 12-3; 12-7; 12-9; 13-13; 14-1; 14-10.
Hydrometra stagnorum (Linnaeus): 1-12; 11-9; 13-8; 13-9; 13-13.

VELIIDAE

- Microvelia buenoi* Drake: 1-4; 4-C1; 4-C2; 8-10; 9-3; 12-8; 14-4.
Microvelia pygmaea (Dufour): 1-5; 4-C1; 4-C2; 8-10; 10-13; 14-3; 14-4; 14-5; 14-6.
Microvelia reticulata (Burmeister): 1-13; 4-C1; 4-C2; 10-13; 11-10; 13-14.
Velia caprai Tamanini: 1-13; 1-17; 3-11a; 3-12; 3-A1; 10-11; 11-6; 11-10; 12-3; 12-11; 13-8; 13-14.
Velia saulii Tamanini: 1-17; 1-18; 3-12; 3-A1; 10-11; 11-6; 12-12.

GERRIDAE

- Aquarius najas* (De Geer): 6-C1; 6-C2; 13-13; 14-10.
Aquarius paludum (Fabricius): 6-C1; 6-C2; 8-10; 12-2; 14-2; 14-4.
Gerris argentatus Schummel: 6-C1; 6-C2; 13-13.
Gerris costae (Herrich-Schaeffer): 1-17; 1-18; 3-A1; 6-C1; 6-C2; 10-12; 11-7; 12-13; 13-13; 14-6.
Gerris gibbifer Schummel: 6-C1; 6-C2; 10-12; 11-7.
Gerris lacustris (Linnaeus): 1-12; 1-17; 3-12; 6-C1; 6-C2; 10-11; 11-6; 11-9; 12-13; 13-13.
Gerris lateralis Schummel: 1-17; 1-18; 3-10; 3-A1; 6-C1; 10-12; 11-7; 12-13.
Gerris odontogaster (Zetterstedt): 1-13; 1-17; 3-12; 6-C1; 6-C2; 10-11; 11-6; 12-11; 13-13.
Gerris thoracicus Schummel: 1-13; 1-17; 3-12; 6-C1; 6-C2; 10-12; 11-7; 11-9; 12-13.
Limnopus rufoscutellatus (Latreille): 1-5; 6-C1; 13-3; 13-7; 14-10.

NEPIDAE

- Nepa cinerea* Linnaeus: 1-13; 1-17; 3-12; 12-10; 13-8; 13-9; 13-13; 14-6.
Ranatra linearis (Linnaeus): 12-3; 13-9; 13-10; 13-13.

NAUCORIDAE

- Ilyocoris cimicoides* (Linnaeus): 13-10; 13-13; 14-3; 14-5.
Naucoris maculatus Fabricius: 3-F2; 3-A1.

APHELOCHEIRIDAE

- Aphelocheirus aestivalis* (Fabricius): 1-5; 3-A1; 5-3; 6-7; 13-13.

NOTONECTIDAE

- Notonecta glauca* Linnaeus: 1-12; 1-17; 3-12; 3-F2; 13-14.
Notonecta maculata Fabricius: 1-13; 11-10; 14-5.
Notonecta obliqua Thunberg: 1-17; 3-A1; 13-4; 14-6.
Notonecta viridis Delcourt: 1-13; 3-A1; 14-5; 14-10.

PLEIDAE

- Plea minutissima* Leach [*leachi*]: 3-A1; 13-5; 13-14.

CORIXIDAE

- Arctocoris carinata* (C.R. Sahlberg): 1-18; 7-C1; 14-6.
Arctocoris germari (Fieber): 1-13; 1-18; 7-C1.
Callicorixa praeusta (Fieber): 1-12; 1-17; 3-11a; 3-12; 7-C1; 12-3; 14-4.
Callicorixa wollastoni (Douglas & Scott): 1-17; 1-18; 3-A2; 4-A8; 7-C1; 14-4; 14-5; 14-6.
Corixa affinis Leach: 7-C2.
Corixa dentipes Thomson: 1-17; 3-A2; 5-3; 7-C2; 14-6.

CORIXIDAE (CONTINUED)

- Corixa iberica* Jansson: 8-5; 8-10; 9-3; 12-7; 12-9; 13-3; 13-7.
Corixa panzeri Fieber: 1-13; 1-17; 3-13; 3-A2; 5-3; 7-C2.
Corixa punctata (Illiger): 1-12; 1-17; 3-12; 3-13; 3-A2; 5-3; 7-C2; 8-5; 11-4; 11-9; 12-9; 13-13.
Cymatia bondsdorffii (C.R. Sahlberg): 1-17; 1-18; 7-C1; 12-12.
Cymatia coleoptrata (Fabricius): 1-17; 1-18; 3-A1; 5-3; 7-C1.
Glaenocorisca cavifrons (Thomson): 8-5; 9-3.
Glaenocorisca propinqua (Fieber): 1-17; 1-18; 7-C2; 8-5; 9-3; 12-13; 13-7; 14-5.
Hesperocorisca castanea (Thomson): 1-17; 1-18; 4-A8; 7-C2; 10-12; 11-7; 14-6.
Hesperocorisca linnaei (Fieber): 1-13; 1-17; 7-C2; 11-9.
Hesperocorisca moesta (Fieber): 1-18; 7-C2.
Hesperocorisca sahlbergi (Fieber): 1-12; 1-17; 3-12; 7-C2; 10-12; 11-7.
Micronecta minutissima (Linnaeus): 1-4; 1-17; 8-10; 14-6.
Micronecta poweri (Douglas & Scott): 1-17; 6-7; 7-C1; 13-13.
Micronecta scholtzi (Fieber): 1-13; 6-7; 7-C1.
Paracorisca concinna (Fieber): 1-13; 1-18; 7-C4; 8-5; 9-3; 14-4.
Sigara distincta (Fieber): 1-13; 1-18; 3-12; 7-C2; 10-12; 11-7; 12-13.
Sigara dorsalis (Leach): 1-13; 1-18; 3-11; 3-12; 3-A2; 4-A12; 5-3; 7-C3; 10-12; 11-7; 11-10.
Sigara falleni (Fieber): 1-13; 1-18; 7-C3.
Sigara fallenoidea (Hungerford): 1-18; 13-3; 13-7; 14-10.
Sigara fossarum (Leach): 1-13; 1-18; 7-C3.
Sigara lateralis (Leach): 1-13; 1-18; 14-4.
Sigara limitata (Fieber): 1-18; 7-C4; 14-6.
Sigara nigrolineata (Fieber): 1-13; 1-18; 3-12; 7-C4; 12-13.
Sigara scotti (Douglas & Scott): 1-18; 4-A8; 7-C3; 10-12; 11-7; 12-13; 13-9.
Sigara selecta (Fieber): 7-C4; 14-6; 14-10.
Sigara semistriata (Fieber): 1-18; 7-C4.
Sigara stagnalis (Leach): 7-C4; 14-10.
Sigara striata (Linnaeus): 1-5; 3-11; 3-A2; 4-A8; 4-A12; 5-3; 8-10.
Sigara venusta (Douglas & Scott): 1-18; 7-C4.

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 Ryan, R. P. 2015. An annotated checklist of the ambiguous species names of Hemiptera-Heteroptera since Massee (1955). *Hemipterist* 2: 4-8.

Appendix: the Newsletter issues and their supplements

Heteropterists' Newsletter No 1, September 1983.

Heteroptera Study Group Newsletter No 2, December 1983.

Heteroptera Study Group Newsletter No 3, May 1984.

Supplement A: Aquatic Heteroptera Recording Card RA54.

Supplement B: Identification of British *Berytinus* species.

Supplement C: The British species of *Phytocoris* Fallén 1814 (Hem. Miridae).

Supplement D: Literature on Heteroptera.

Supplement E: Heteropterists' meeting 6-8th July 1984.

Supplement F: Heteroptera of the Channel Islands.

Heteroptera Study Group Newsletter No 4, November 1984.

Supplement A: Heteroptera recording scheme information package.

Supplement B: Draft keys to mirid genera.

Supplement C: Identification of *Microvelia*.

Supplement D: Notes on the recording and identification of *Psallus*.

Heteroptera Study Group Newsletter No 5, April 1985.

Supplement A: [Booking form for BENHS field meeting — Missing. Not indexed].

Supplement B: Heteroptera Study Group Anglesey Field Meeting 16/17 Aug.

Supplement C: Identification of the British *Taphropeltus*.

Supplement D: A provisional identification guide to the British *Scolopostethus*.

Supplement E: British species of *Dicyphus* Fieber 1858.

Heteroptera Study Group Newsletter No 6, December 1985.

Supplement A: Heteroptera priority squares.

Supplement B: Identification of the British *Leptopterna*.

Supplement C: *Gerris* genital segments.

Supplement D: Heteropterists' Meeting, Oxfordshire 27-29 June 1986.

Supplement E: [Key to the European Lygaeidae: Orsillinae. — Missing. Not indexed]

Heteroptera Study Group Newsletter No 7, May 1987.

Supplement A: Notes on British Nabidae.

Supplement B: Key to British *Nysius*.

Supplement C: Male corixid abdomens.

Heteroptera Study Group Newsletter No 8, December 1988.

Heteroptera Study Group Newsletter No 9, February 1990.

Heteroptera Study Group Newsletter No 10, May 1991.

Heteroptera Study Group Newsletter No 11, April 1992.

Heteroptera Study Group Newsletter No 12, August 1993.

Heteroptera Study Group Newsletter No 13, March 1996.

Supplement A: The distribution of aquatic bugs in Britain.

Heteroptera Study Group Newsletter No 14, March 1999.

**MACROLOPHUS PYGMAEUS (RAMBUR) (HEMIPTERA: MIRIDAE) NEW TO
OXFORDSHIRE AND HAMPSHIRE**

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It was once thought that only one species of *Macrolophus* Fieber occurred in the British Isles, under the name *Macrolophus nubilus* (Herrich-Schaeffer), albeit existing as two distinct forms. One was seldom encountered and associated with Hedge Woundwort, *Stachys sylvatica* L. (Lamiaceae), in the late spring; and the other was common and associated with Bramble, *Rubus* L. (Rosaceae), in the summer. Woodroffe (1956 & 1957) pointed out that these forms were separate species, the former now known as *Macrolophus pygmaeus* (Rambur) and the latter *Macrolophus rubi* Woodroffe. All previous records for the genus then became doubtful and had to be disregarded, unless traced to an authenticated specimen. Such 'species-splits' devastate recorded distributions, and the effect on *Macrolophus* can be seen in Figure 1. Six decades of recording has only partially repaired the damage, with records for *M. pygmaeus* particularly wanting. The scattered distribution of this species suggests that there are many counties missing records. I am pleased therefore to present two new county records for *M. pygmaeus*, adding Oxfordshire and Hampshire to its known distribution.

I had been trying to record the insect for several years, and was surprised by my lack of success, given that I had been sampling its host plant a great deal in my study of *Dicyphus pallidus* (Herrich-Schaeffer) (Miridae) (Ryan, 2010, 2011 & 2013b). However, it was not until 7 July 2014 that I found the insect, taking a singleton sweeping at the entrance to College & Queen Wood, near Christmas Common in the Oxfordshire Chilterns (National Grid Reference SU714921). The animal was immediately recognised as distinct from the more common *M. rubi* owing to its bright green colour, in contrast to the pale green of the latter. I was probably fortunate to catch the bug at this time, as it was already quite late in the season for the animal, and I resolved to return earlier in the following year to take a series. This I did on 14 June 2015, when both nymphs and adults were found in good numbers. The bug was absent within the wood, where there was much more woundwort.

My second encounter with the species was eleven days later on a bridge over a dismantled railway line near Burgclere, North Hampshire (VC12) (SU473592) (Ryan, 2016). Here, a small amount of Hedge Woundwort delivered a single specimen. The abundant host plant encountered later along the shady track of the former railway line delivered no more of the animal.

In my own recording, I have found that the Heteroptera associated with Hedge Woundwort divide into three groups, depending upon their preference for shady or open situations. *Macrotylus solitarius* (Meyer-Dür) (Miridae) and *Eysarcoris venustissimus* (Schränk) (Pentatomidae) are found in open situations, such as along hedgerows and wider woodland rides, whereas *D. pallidus* and *Dicyphus stachydis* J. Sahlberg are found only in shady places, often under a woodland canopy. *Dicyphus errans* (Wolff) can be found in either situation. My two records for *M. pygmaeus* are from open situations, with nearby shaded host plant lacking the bug. It will be interesting to see if more records confirm its membership of the *Eysarcoris*/*Macrotylus* group.

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FIGURE 1. The county distributions of *Macrolophus nubilis* from Massee (1955) (left), and of *M. pygmaeus* (middle) and *M. rubi* (right) from Ryan (2013a, 2014a & 2014b).



FIGURE 2. The females of *M. pygmaeus* (left) and *M. rubi* (right). The former is stouter and has shorter antennae, in particular the third segment, and in life it is a brighter green in colour.

SOME OLD RECORDS OF HEMIPTERA-HETEROPTERA FROM EAST ANGLIA

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Introduction

As part of my work towards a division of the county list for Norfolk (Ryan, 2017), I revisited a collection of Hemiptera-Heteroptera from my youth, taken mostly in the Breckland area of East Anglia, and extracted the records listed below.

My father was a keen angler, and the family took its annual fortnight holiday each August in the fens of Norfolk and Cambridgeshire, staying at a farmer's cottage in Outwell. Several days were taken away from the rivers and drains, usually on rambles in the woodland near Thetford. When the weather was suitable, I would collect insects, which in 1979, 1980 and 1981 included the Hemiptera-Heteroptera. In 1983, whilst a postgraduate student, I returned to the area by myself on two week-long holidays in June and July, exploring by bicycle from my accommodation at the Old Rectory, Weeting, near Brandon, then operating as a B&B. I was joined in July by a fellow student, David Puckering, whose motorbike allowed more time collecting and less travelling.

In the above four years, a total of 30 successful field visits were made, producing the 319 records listed below. A record for *Megacoelum infusum* (Herrich-Schaeffer) (Miridae) (15 August 1979, TL845873, Two Mile Bottom) was discounted as the specimen was female and could not be dissected to confirm its identity (Ryan, 2016). Of the many specimens of *Orthops* Fieber, most were females, and only one was successfully dissected to confirm the species.

Most collecting was conducted at a small number of sites. The ride along the southern edge of Santon Warren, from the A134 near Two Mile Bottom to the level crossing north of Santon Downham, was visited nine times. The King's Forest was visited eight times, all but one visit was to a wide ride marked on the map as Chalk Lane, running east from the B1106. Four visits were made to The Devil's Punchbowl, collecting here and along the ride extending due south, and there were two visits each to Brandon Park and the nearby Lakenheath Warren. Beating and sweeping were the only collecting methods employed, except on one evening when a water net was used in the creek immediately adjacent to the farmer's cottage in Outwell.

The listed records are mostly of common species, but three are of particular personal note: *Alydus calcaratus* (Linnaeus) (Alydidae), *Derephysia foliacea* (Fallén) (Tingidae) and *Capsodes gothicus* (Linnaeus) (Miridae). I have yet to take these species again in my ten years of serious collecting since 2006, in spite of much effort to find them in Oxfordshire and neighbouring counties. A fourth species, *Conostethus roseus* (Fallén) (Miridae), I have only taken once since my work in the Brecks. Three other species, *Troilus luridus* (Fabricius) (Pentatomidae), *Rhopalus parumpunctatus* Schilling (Rhopalidae) and *Chorosoma schillingii* (Schilling) (Rhopalidae), I have since only taken sparingly.

The list of records

Acanthosoma haemorrhoidale (Linnaeus) (Acanthosomatidae)

WEST NORFOLK (VC28): 16 August 1980, TL878892, Devil's Punchbowl; 16 June 1983, TL871875, Croxton.

WEST SUFFOLK (VC26): 17 June 1983, TL826753, Chalk Lane, The King's Forest.

Elasmotethus interstinctus (Linnaeus) (Acanthosomatidae)

WEST NORFOLK (VC28): 15 August 1979, TL845873, Two Mile Bottom; 10 August 1980, TL845875, Two Mile Bottom; 17 August 1980, TL928929, Hockham Heath; 16 June 1983, TL871875, Croxton; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 19 August 1979, TL827752, Chalk Lane, The King's Forest; 09 August 1980, TL825753, Chalk Lane, The King's Forest; 14 August 1980, TL763841, Brandon Park; 17 June 1983, TL826752, Chalk Lane, The King's Forest; 17 June 1983, TL826753, Chalk Lane, The King's Forest; 20 July 1983, TL826753, Chalk Lane, The King's Forest.

Elasmucha grisea (Linnaeus) (Acanthosomatidae)

WEST NORFOLK (VC28): 17 August 1980, TL928929, Hockham Heath; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest; 14 August 1980, TL763841, Brandon Park; 17 June 1983, TL826753, Chalk Lane, The King's Forest; 20 July 1983, TL826753, Chalk Lane, The King's Forest.

Eurygaster testudinaria (Geoffroy) (Scutelleridae)

WEST SUFFOLK (VC26): 19 July 1983, TL758816, Lakenheath Warren.

Aelia acuminata (Linnaeus) (Pentatomidae)

WEST NORFOLK (VC28): 19 June 1983, TL818883, Santon Warren; 20 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 15 June 1983, TL758816, Lakenheath Warren.

Dolycoris baccarum (Linnaeus) (Pentatomidae)

WEST NORFOLK (VC28): 23 August 1979, TL820880, Santon Warren; 18 June 1983, TL839874, Two Mile Bottom; 19 June 1983, TL818883, Santon Warren; 20 July 1983, TL818883, Santon Warren.

Neottiglossa pusilla (Gmelin) (Pentatomidae)

WEST NORFOLK (VC28): 16 June 1983, TL871875, Croxton; 19 June 1983, TL818883, Santon Warren.

Pentatoma rufipes (Linnaeus) (Pentatomidae)

WEST NORFOLK (VC28): 15 August 1979, TL845873, Two Mile Bottom; 16 August 1980, TL878892, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL845875, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest; 12 August 1980, TL804808, Warren Wood.

Troilus luridus (Fabricius) (Pentatomidae)

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest; 17 June 1983, TL826753, Chalk Lane, The King's Forest.

Alydus calcaratus (Linnaeus) (Alydidae)

WEST NORFOLK (VC28): 21 July 1983, TL818883, Santon Warren.

Chorosoma schillingii (Schilling) (Rhopalidae)

WEST NORFOLK (VC28): 09 August 1981, TL828880, Santon Warren; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 19 July 1983, TL758816, Lakenheath Warren.

Myrmus miriformis (Fallén) (Rhopalidae)

WEST NORFOLK (VC28): 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest; 12 August 1980, TL831752, Chalk Lane, The King's Forest.

Rhopalus parumpunctatus Schilling (Rhopalidae)

WEST NORFOLK (VC28): 20 July 1983, TL818883, Santon Warren; 21 July 1983, TL818883, Santon Warren.

Cymus glandicolor Hahn (Lygaeidae)

WEST NORFOLK (VC28): 19 June 1983, TL818883, Santon Warren; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 13 June 1983, TL764844, Brandon Park; 15 June 1983, TL758816, Lakenheath Warren.

Gastrodes grossipes (De Geer) (Lygaeidae)

WEST SUFFOLK (VC26): 17 June 1983, TL826753, Chalk Lane, The King's Forest.

Ischnodemus sabuleti (Fallén) (Lygaeidae)

WEST NORFOLK (VC28): 10 August 1980, TL840874, St Helen's Well, Two Mile Bottom; 18 June 1983, TL839874, Two Mile Bottom; 19 June 1983, TL818883, Santon Warren; 20 July 1983, TL839874, Two Mile Bottom.

WEST SUFFOLK (VC26): 13 June 1983, TL764844, Brandon Park.

Kleidocerys resedae (Panzer) (Lygaeidae)

WEST NORFOLK (VC28): 16 June 1983, TL871875, Croxton.

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest; 15 June 1983, TL758816, Lakenheath Warren; 17 June 1983, TL826753, Chalk Lane, The King's Forest; 20 July 1983, TL826753, Chalk Lane, The King's Forest.

Scolopostethus thomsoni Reuter (Lygaeidae)

WEST NORFOLK (VC28): 16 June 1983, TL871875, Croxton; 19 July 1983, TL877887, Devil's Punchbowl.

Trapezonotus arenarius (Linnaeus) (Lygaeidae)

WEST SUFFOLK (VC26): 14 August 1980, TL763841, Brandon Park.

Derephysia foliacea (Fallén) (Tingidae)

WEST SUFFOLK (VC26): 14 August 1980, TL773835, Brandon Park.

Tingis ampliata (Herrich-Schaeffer) (Tingidae)

WEST NORFOLK (VC28): 16 June 1983, TL871875, Croxton; 20 July 1983, TL848875, Two Mile Bottom; 20 July 1983, TL839874, Two Mile Bottom.

WEST SUFFOLK (VC26): 17 June 1983, TL826753, Chalk Lane, The King's Forest.

Himacerus apterus (Fabricius) (Nabidae)

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest; 12 August 1980, TL824754, Chalk Lane, The King's Forest; 12 August 1980, TL831752, Chalk Lane, The King's Forest; 10 August 1981, TL827752, Chalk Lane, The King's Forest.

Nabis ferus (Linnaeus) (Nabidae)

WEST NORFOLK (VC28): 18 July 1983, TL877893, Devil's Punchbowl.

WEST SUFFOLK (VC26): 09 August 1980, TL828751, Chalk Lane, The King's Forest; 21 July 1983, TL826753, Chalk Lane, The King's Forest.

Nabis flavomarginatus Scholtz (Nabidae)

WEST NORFOLK (VC28): 18 July 1983, TL877893, Devil's Punchbowl; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 21 July 1983, TL828752, Chalk Lane, The King's Forest.

Nabis limbatus Dahlbom (Nabidae)

WEST NORFOLK (VC28): 18 July 1983, TL877893, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL848875, Two Mile Bottom; 20 July 1983, TL839874, Two Mile Bottom.

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest; 12 August 1980, TL824754, Chalk Lane, The King's Forest; 21 July 1983, TL828752, Chalk Lane, The King's Forest; 21 July 1983, TL826753, Chalk Lane, The King's Forest.

Nabis rugosus (Linnaeus) (Nabidae)

WEST NORFOLK (VC28): 17 August 1980, TL928929, Hockham Heath; 19 June 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest; 09 August 1980, TL828751, Chalk Lane, The King's Forest; 13 June 1983, TL764844, Brandon Park; 15 June 1983, TL758816, Lakenheath Warren; 17 June 1983, TL826752, Chalk Lane, The King's Forest.

Anthocoris nemorum (Linnaeus) (Anthocoridae)

WEST NORFOLK (VC28): 16 June 1983, TL877893, Devil's Punchbowl; 16 June 1983, TL871875, Croxton; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL845875, Two Mile Bottom; 20 July 1983, TL848875, Two Mile Bottom; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 13 June 1983, TL764844, Brandon Park; 20 July 1983, TL826753, Chalk Lane, The King's Forest; 21 July 1983, TL826753, Chalk Lane, The King's Forest.

Acetropis gimmerthalii (Flor) (Miridae)

WEST NORFOLK (VC28): 19 June 1983, TL818883, Santon Warren; 18 July 1983, TL877893, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

Acetropis gimmerthalii (Flor) (Miridae) (*continued*)

WEST SUFFOLK (VC26): 21 July 1983, TL828752, Chalk Lane, The King's Forest; 21 July 1983, TL826753, Chalk Lane, The King's Forest.

Adelphocoris lineolatus (Goeze) (Miridae)

WEST NORFOLK (VC28): 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 21 July 1983, TL818883, Santon Warren.

Amblytylus nasutus (Kirschbaum) (Miridae)

WEST NORFOLK (VC28): 19 July 1983, TL877887, Devil's Punchbowl.

Apolygus lucorum (Meyer-Dür) (Miridae)

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest.

Apolygus spinolae (Meyer-Dür) (Miridae)

WEST SUFFOLK (VC26): 12 August 1980, TL824754, Chalk Lane, The King's Forest.

Atractotomus mali (Meyer-Dür) (Miridae)

WEST NORFOLK (VC28): 20 July 1983, TL839874, Two Mile Bottom.

Blepharidopterus angulatus (Fallén) (Miridae)

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest.

Calocoris roseomaculatus (De Geer) (Miridae)

WEST NORFOLK (VC28): 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 21 July 1983, TL818883, Santon Warren.

Campyloneura virgula (Herrich-Schaeffer) (Miridae)

WEST NORFOLK (VC28): 20 July 1983, TL845875, Two Mile Bottom; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

Capsodes gothicus (Linnaeus) (Miridae)

WEST NORFOLK (VC28): 20 July 1983, TL839874, Two Mile Bottom.

WEST SUFFOLK (VC26): 21 July 1983, TL828752, Chalk Lane, The King's Forest.

Capsus ater (Linnaeus) (Miridae)

WEST NORFOLK (VC28): 19 June 1983, TL818883, Santon Warren; 18 July 1983, TL877893, Devil's Punchbowl; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL848875, Two Mile Bottom; 20 July 1983, TL839874, Two Mile Bottom.

WEST SUFFOLK (VC26): 21 July 1983, TL828752, Chalk Lane, The King's Forest.

Charagochilus gyllenhalii (Fallén) (Miridae)

WEST NORFOLK (VC28): 19 July 1983, TL877887, Devil's Punchbowl; 21 July 1983, TL818883, Santon Warren.

Closterotomus norwegicus (Gmelin) (Miridae)

WEST NORFOLK (VC28): 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL839874, Two Mile Bottom.

WEST SUFFOLK (VC26): 09 August 1980, TL828751, Chalk Lane, The King's Forest; 12 August 1980, TL831752, Chalk Lane, The King's Forest.

Conostethus roseus (Fallén) (Miridae)

WEST NORFOLK (VC28): 16 June 1983, TL877893, Devil's Punchbowl.

WEST SUFFOLK (VC26): 15 June 1983, TL758816, Lakenheath Warren.

Deraeocoris ruber (Linnaeus) (Miridae)

WEST NORFOLK (VC28): 10 August 1980, TL840874, St Helen's Well, Two Mile Bottom; 18 July 1983, TL877893, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 21 July 1983, TL826753, Chalk Lane, The King's Forest.

Dicyphus epilobii Reuter (Miridae)

WEST SUFFOLK (VC26): 12 August 1980, TL824754, Chalk Lane, The King's Forest.

Halticus luteicollis (Panzer) (Miridae)

WEST NORFOLK (VC28): 20 July 1983, TL839874, Two Mile Bottom.

Heterotoma planicornis (Pallas) (Miridae)

WEST NORFOLK (VC28): 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL839874, Two Mile Bottom.

WEST SUFFOLK (VC26): 12 August 1980, TL820768, Queen Mary's Avenue, The King's Forest; 20 July 1983, TL826753, Chalk Lane, The King's Forest.

Leptopterna dolabrata (Linnaeus) (Miridae)

WEST NORFOLK (VC28): 18 July 1983, TL877893, Devil's Punchbowl; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL848875, Two Mile Bottom; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 21 July 1983, TL828752, Chalk Lane, The King's Forest; 21 July 1983, TL826753, Chalk Lane, The King's Forest.

Leptopterna ferrugata (Fallén) (Miridae)

WEST NORFOLK (VC28): 20 July 1983, TL818883, Santon Warren; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 21 July 1983, TL828752, Chalk Lane, The King's Forest.

Liocoris tripustulatus (Fabricius) (Miridae)

WEST NORFOLK (VC28): 18 June 1983, TL839874, Two Mile Bottom; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 12 August 1980, TL824754, Chalk Lane, The King's Forest; 13 June 1983, TL764844, Brandon Park; 15 June 1983, TL758816, Lakenheath Warren; 21 July 1983, TL828752, Chalk Lane, The King's Forest.

Lopus decolor (Fallén) (Miridae)

WEST NORFOLK (VC28): 18 July 1983, TL877893, Devil's Punchbowl; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL848875, Two Mile Bottom; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 21 July 1983, TL828752, Chalk Lane, The King's Forest.

Lygocoris pabulinus (Linnaeus) (Miridae)

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest.

Lygus rugulipennis Poppius (Miridae)

WEST NORFOLK (VC28): 17 August 1980, TL928929, Hockham Heath; 16 June 1983, TL871875, Croxton; 18 July 1983, TL877893, Devil's Punchbowl; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest; 09 August 1980, TL828751, Chalk Lane, The King's Forest; 12 August 1980, TL824754, Chalk Lane, The King's Forest; 12 August 1980, TL831752, Chalk Lane, The King's Forest; 21 July 1983, TL828752, Chalk Lane, The King's Forest.

Mecomma ambulans (Fallén) (Miridae)

WEST NORFOLK (VC28): 20 July 1983, TL848875, Two Mile Bottom.

Megaloceroea recticornis (Geoffroy) (Miridae)

WEST NORFOLK (VC28): 18 July 1983, TL877893, Devil's Punchbowl; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL848875, Two Mile Bottom; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 20 July 1983, TL826753, Chalk Lane, The King's Forest; 21 July 1983, TL828752, Chalk Lane, The King's Forest; 21 July 1983, TL826753, Chalk Lane, The King's Forest.

Miris striatus (Linnaeus) (Miridae)

WEST NORFOLK (VC28): 21 July 1983, TL818883, Santon Warren.

Monalocoris filicis (Linnaeus) (Miridae)

WEST NORFOLK (VC28): 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 19 July 1983, TL758816, Lakenheath Warren.

Neolygus contaminatus (Fallén) (Miridae)

WEST NORFOLK (VC28): 17 August 1980, TL928929, Hockham Heath.

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest; 20 July 1983, TL826753, Chalk Lane, The King's Forest.

Notostira elongata (Geoffroy) (Miridae)

WEST NORFOLK (VC28): 19 June 1983, TL818883, Santon Warren; 18 July 1983, TL877893, Devil's Punchbowl; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL848875, Two Mile Bottom; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 21 July 1983, TL828752, Chalk Lane, The King's Forest; 21 July 1983, TL826753, Chalk Lane, The King's Forest.

Orthocephalus saltator (Hahn) (Miridae)

WEST NORFOLK (VC28): 20 July 1983, TL818883, Santon Warren; 21 July 1983, TL818883, Santon Warren.

Orthonotus rufifrons (Fallén) (Miridae)

WEST NORFOLK (VC28): 20 July 1983, TL818883, Santon Warren.

Orthops campestris (Linnaeus) (Miridae)

WEST NORFOLK (VC28): 20 July 1983, TL848875, Two Mile Bottom.

Phylus melanocephalus (Linnaeus) (Miridae)

WEST NORFOLK (VC28): 20 July 1983, TL845875, Two Mile Bottom; 20 July 1983, TL845875, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren; 21 July 1983, TL818883, Santon Warren.

Phytocoris longipennis Flor (Miridae)

WEST SUFFOLK (VC26): 09 August 1980, TL825753, Chalk Lane, The King's Forest.

Phytocoris ulmi (Linnaeus) (Miridae)

WEST NORFOLK (VC28): 20 July 1983, TL839874, Two Mile Bottom.

Phytocoris varipes Boheman (Miridae)

WEST NORFOLK (VC28): 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL848875, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

Pinalitus cervinus (Herrich-Schaeffer) (Miridae)

WEST SUFFOLK (VC26): 09 August 1980, TL828751, Chalk Lane, The King's Forest; 12 August 1980, TL820768, Queen Mary's Avenue, The King's Forest.

Pithanus maerkelii (Herrich-Schaeffer) (Miridae)

WEST NORFOLK (VC28): 19 June 1983, TL818883, Santon Warren; 18 July 1983, TL877893, Devil's Punchbowl; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

Plagiognathus arbustorum (Fabricius) (Miridae)

WEST NORFOLK (VC28): 18 July 1983, TL877893, Devil's Punchbowl; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL848875, Two Mile Bottom; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 21 July 1983, TL826753, Chalk Lane, The King's Forest.

Plagiognathus chrysanthemi (Wolff) (Miridae)

WEST NORFOLK (VC28): 18 July 1983, TL877893, Devil's Punchbowl; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL848875, Two Mile Bottom; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 09 August 1980, TL828751, Chalk Lane, The King's Forest; 12 August 1980, TL824754, Chalk Lane, The King's Forest; 12 August 1980, TL831752, Chalk Lane, The King's Forest; 21 July 1983, TL828752, Chalk Lane, The King's Forest; 21 July 1983, TL826753, Chalk Lane, The King's Forest.

Polymerus nigrita (Fallén) (Miridae)

WEST NORFOLK (VC28): 20 July 1983, TL839874, Two Mile Bottom.

Polymerus unifasciatus (Fabricius) (Miridae)

WEST NORFOLK (VC28): 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 21 July 1983, TL828752, Chalk Lane, The King's Forest.

Psallus falleni Reuter (Miridae)

WEST NORFOLK (VC28): 20 July 1983, TL845875, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

Rhabdomiris striatellus (Fabricius) (Miridae)

WEST NORFOLK (VC28): 16 June 1983, TL871875, Croxton; 18 June 1983, TL844875, Two Mile Bottom.

Stenodema calcarata (Fallén) (Miridae)

WEST NORFOLK (VC28): 16 June 1983, TL877893, Devil's Punchbowl; 16 June 1983, TL871875, Croxton; 18 June 1983, TL839874, Two Mile Bottom; 19 June 1983, TL818883, Santon Warren; 18 July 1983, TL877893, Devil's Punchbowl; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 15 June 1983, TL758816, Lakenheath Warren; 17 June 1983, TL826753, Chalk Lane, The King's Forest.

Stenodema laevigata (Linnaeus) (Miridae)

WEST NORFOLK (VC28): 15 August 1979, TL845873, Two Mile Bottom; 16 June 1983, TL877893, Devil's Punchbowl; 16 June 1983, TL871875, Croxton; 18 June 1983, TL839874, Two Mile Bottom; 19 June 1983, TL818883, Santon Warren; 18 July 1983, TL877893, Devil's Punchbowl; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL818883, Santon Warren; 20 July 1983, TL848875, Two Mile Bottom; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 19 August 1979, TL824753, Chalk Lane, The King's Forest; 12 August 1980, TL831752, Chalk Lane, The King's Forest; 13 June 1983, TL764844, Brandon Park; 15 June 1983, TL758816, Lakenheath Warren; 17 June 1983, TL826753, Chalk Lane, The King's Forest.

Stenotus binotatus (Fabricius) (Miridae)

EAST NORFOLK (VC27): 19 August 1980, TG379188, Ludham.

WEST NORFOLK (VC28): 10 August 1980, TL845875, Two Mile Bottom; 18 July 1983, TL877893, Devil's Punchbowl; 19 July 1983, TL877887, Devil's Punchbowl; 20 July 1983, TL845875, Two Mile Bottom; 20 July 1983, TL848875, Two Mile Bottom; 20 July 1983, TL839874, Two Mile Bottom; 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 20 July 1983, TL826753, Chalk Lane, The King's Forest; 21 July 1983, TL828752, Chalk Lane, The King's Forest; 21 July 1983, TL826753, Chalk Lane, The King's Forest.

Trigonotylus ruficornis (Geoffroy) (Miridae)

WEST NORFOLK (VC28): 21 July 1983, TL818883, Santon Warren.

WEST SUFFOLK (VC26): 09 August 1980, TL828751, Chalk Lane, The King's Forest; 19 July 1983, TL758816, Lakenheath Warren.

Notonecta glauca Linnaeus (Notonectidae)

WEST NORFOLK (VC28): 09 August 1980, TF527032, Well Creek, Outwell.

Corixa punctata (Illiger) (Corixidae)

WEST NORFOLK (VC28): 09 August 1980, TF527032, Well Creek, Outwell.

Hesperocorixa linnaei (Fieber) (Corixidae)

WEST NORFOLK (VC28): 09 August 1980, TF527032, Well Creek, Outwell.

Hesperocorixa sahlbergi (Fieber) (Corixidae)

WEST NORFOLK (VC28): 09 August 1980, TF527032, Well Creek, Outwell.

I am most grateful to David Puckering for his companionship, and the use of his motorbike, during July 1983. I should also apologise, belatedly, for messing up the accommodation, resulting in us having to spend two nights in the Rectory stable, rather than in the room I thought I had booked.

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**THE STATUS OF *TUPONIA* REUTER (HEMIPTERA: MIRIDAE)
IN OXFORDSHIRE AND NEIGHBOURING COUNTIES**

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Tuponia brevirostris Reuter was reported as new to Oxfordshire by Ryan (2014c), having been beaten from a Tamarisk, *Tamarix* spp. (Tamaricaceae), in Old Woodstock (National Grid Reference SP441172) on 21 July 2011. I had first encountered this species in the previous year, on the coast of South Hampshire and West Sussex (Ryan, 2012). There it was in the company of its congener, *Tuponia mixticolor* (A. Costa), but this species was absent from Old Woodstock. In the following years, I was keen to add further records for this genus, and wherever I encountered tamarisk, in Oxfordshire or elsewhere, I would stop the car and beat the bush hopefully, but with no success. However, in 2014, my luck changed.

A collecting trip along the Oxford Canal on 3 July was concluded with a late lunch at The Plough public house, Wolvercote, Oxford. Due to an awkward parking situation, I decided to take a different route home, which took me past a mature tamarisk, that I had not previously noticed (SP494099). A few beats delivered many specimens of both species of *Tuponia*, adding *T. mixticolor* to the county list. Oxfordshire is only the second non-coastal county from which the bug has been recorded.

This fortuitous discovery renewed my enthusiasm for the genus, and in the coming days I revisited the several tamarisks I had located in Oxfordshire in recent years. Three of these produced *T. brevirostris*, in Benson (SU616916), Shillingford (SU594929) and Aston Rowant (SU724982), all on 7 July. The following day, I revisited the original site in Old Woodstock and took the bug again.

In the following year, on 12 July 2015, I found *T. brevirostris* for the first time in University parks, Oxford, Oxfordshire (SP513073), on a small tamarisk which I had checked each year since before my first county record. New tamarisk bushes were found elsewhere in the following days and weeks, which yielded more of the bug, in Yarnton, Oxfordshire (SP477119) on 10 July, in Long Wittenham, Watsonian Berkshire (SU549940) on 15 July, at the entrance to Hinksey Park, Oxford, Watsonian Berkshire (SP515049) on 31 July, on the A41 outside Aylesbury, Buckinghamshire (SP853129) on 2 August, and in Headington, Oxford, Oxfordshire (SP541077) on 15 August. The records for Berkshire and Buckinghamshire are new to these vice-counties.

Ryan (2012) posed the question of whether the two species of *Tuponia* had the same or different distributions in Britain. Figure 2 shows that the known distribution for *T. mixticolor* has a broader range than that of *T. brevirostris*, and has been recorded in more counties. However, as far as my own collecting is concerned, in Oxfordshire and neighbouring counties, *T. brevirostris* is much the more commonly encountered.

References

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FIGURE 1. *Tuponia brevirostris* (male, left) and *Tuponia mixticolor* (female, right).



FIGURE 2. The county distributions of *Tuponia brevirostris* (left) and *Tuponia mixticolor* (right) (Ryan, 2014a & 2014b).

THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR NORFOLK INTO VICE-COUNTY LISTS FOR VC27 AND VC28

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Introduction

The list of Hemiptera-Heteroptera for Norfolk in Ryan (2014) was compiled from that of Massee (1955) with additional records from the national entomological literature published in the six decades between these two papers. Ryan did not consider local publications, in particular those of the *Transactions of the Norfolk and Norwich Naturalists' Society*; and did not attempt to divide the list for Norfolk into separate lists for its constituent vice-counties, which are the basis of modern recording. The present paper addresses these shortcomings, adding new county records and dividing the county list into separate lists for Watsonian East Norfolk (VC27) and Watsonian West Norfolk (VC28).

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a & 2016b). The resulting vice-county lists include 584 records, compared with 350 for the original Norfolk list. The list for Norfolk as a whole has lengthened by 66, the increase arising from 83 species added to the list and 17 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The lists for the two vice-counties, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Norfolk are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking some of the records relate to the references from which they were derived, as indicated in Table 1. The unmarked records are from Durrant (2002, 2003, 2004 & 2005). Details of the records marked "A" and "B" are given in the Appendices, these being from datasets provided by Steve Lane (A) and Rob Coleman (B). I am most grateful to Steve and Rob for supplying these records and for their permission to publish those new to the vice-county lists.

The divided records

ARADIDAE

<i>Aradus aterrimus</i> Fieber [NEW]	-	VC28 (B)
<i>Aneurus avenius</i> (Dufour) [NEW]	-	VC28 (5)
<i>Aradus depressus</i> (Fabricius)	VC27 (B)	VC28 (A)

ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus)	VC27	VC28 (1)
<i>Cyphostethus tristriatus</i> (Fabricius) [NEW]	VC27	VC28
<i>Elasmotethus interstinctus</i> (Linnaeus)	VC27	VC28 (1)
<i>Elasmucha grisea</i> (Linnaeus)	VC27	VC28 (1)

CYDNIDAE

<i>Adomerus biguttatus</i> (Linnaeus) [NEW]	-	VC28
<i>Legnotus limbosus</i> (Geoffroy)	VC27 (B)	VC28
<i>Legnotus picipes</i> (Fallén)	VC27	VC28
<i>Sehirus luctuosus</i> Mulsant & Rey	VC27 (B)	VC28
<i>Tritomegas bicolor</i> (Linnaeus)	VC27	VC28

THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus)	VC27	VC28
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SCUTELLERIDAE

<i>Eurygaster testudinaria</i> (Geoffroy)	VC27 (B)	VC28 (A)
<i>Odontoscelis fuliginosa</i> (Linnaeus)	VC27	VC28 (B)
<i>Odontoscelis lineola</i> Rambur	-	VC28 (7)

PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	VC27	VC28 (1)
<i>Dolycoris baccarum</i> (Linnaeus)	VC27 (B)	VC28 (1)
<i>Eurydema dominulus</i> (Scopoli)	VC27	-
<i>Eurydema oleracea</i> (Linnaeus) [NEW]	VC27 (B)	VC28 (5)
<i>Eysarcoris venustissimus</i> (Schrank) [NEW]	VC27	VC28
<i>Neottiglossa pusilla</i> (Gmelin)	VC27 (B)	VC28 (1)
<i>Palomena prasina</i> (Linnaeus)	VC27	VC28
<i>Pentatoma rufipes</i> (Linnaeus)	VC27	VC28 (1)
<i>Peribalus strictus</i> (Fabricius) [NEW]	VC27 (B)	-
<i>Picromerus bidens</i> (Linnaeus)	VC27	VC28
<i>Piezodorus lituratus</i> (Fabricius)	VC27	VC28
<i>Podops inunctus</i> (Fabricius)	VC27	VC28 (A)
<i>Rhacognathus punctatus</i> (Linnaeus)	VC27	VC28 (B)
<i>Troilus luridus</i> (Fabricius)	VC27	VC28
<i>Zicrona caerulea</i> (Linnaeus)	VC27	VC28

COREIDAE

<i>Arenocoris fallenii</i> (Schilling)	VC27 (B)	VC28 (A)
<i>Arenocoris waltlii</i> (Herrich-Schaeffer)	-	VC28 (A)
<i>Bathysolen nubilus</i> (Fallén)	VC27 (B)	VC28 (7)
<i>Ceraleptus lividus</i> Stein [NEW]	VC27 (B)	VC28 (5)
<i>Coreus marginatus</i> (Linnaeus) [NEW]	VC27 (B)	VC28
<i>Coriomeris denticulatus</i> (Scopoli)	VC27	VC28
<i>Gonocerus acuteangulatus</i> (Goeze)	VC27 (19)	VC28 (A)
<i>Leptoglossus occidentalis</i> Heidemann	VC27 (B)	VC28 (B)
<i>Spathocera dalmanii</i> (Schilling)	-	VC28 (18)
<i>Syromastus rhombeus</i> (Linnaeus) [NEW]	VC27 (B)	VC28 (4)

ALYDIDAE

<i>Alydus calcaratus</i> (Linnaeus)	VC27	VC28 (1)
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RHOPALIDAE

<i>Chorosoma schillingii</i> (Schilling)	VC27	VC28 (1)
<i>Corizus hyoscyami</i> (Linnaeus)	VC27 (B)	VC28 (A)
<i>Liorhyssus hyalinus</i> (Fabricius)	VC27 (B)	VC28 (A)
<i>Myrmus miriformis</i> (Fallén)	VC27	VC28 (1)
<i>Rhopalus maculatus</i> (Fieber) [NEW]	VC27 (B)	VC28
<i>Rhopalus parumpunctatus</i> Schilling	VC27 (18)	VC28 (1)
<i>Rhopalus rufus</i> Schilling [NEW]	-	VC28 (B)
<i>Rhopalus subrufus</i> (Gmelin)	VC27 (B)	VC28
<i>Stictopleurus abutilon</i> (Rossi)	VC27	VC28 (A)
<i>Stictopleurus punctatonevrosus</i> (Goeze)	VC27 (21)	VC28 (20)

PYRRHOCORIDAE

<i>Pyrrhocoris apterus</i> (Linnaeus) [NEW]	VC27 (B)	-
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LYGAEIDAE

<i>Acompus rufipes</i> (Wolff)	VC27	-
<i>Aphanus rolandri</i> (Linnaeus)	VC27 (B)	VC28

LYGAEIDAE (CONTINUED)

<i>Chilacis typhae</i> (Perris)	VC27	VC28
<i>Cymus claviculus</i> (Fallén)	VC27 (B)	VC28
<i>Cymus glandicolor</i> Hahn	VC27	VC28 (1)
<i>Cymus melanocephalus</i> Fieber	VC27 (A)	VC28
<i>Drymus brunneus</i> (R.F. Sahlberg)	VC27	VC28
<i>Drymus latus</i> Douglas & Scott [NEW]	-	VC28 (5)
<i>Drymus sylvaticus</i> (Fabricius)	VC27	VC28
<i>Eremocoris fenestratus</i> (Herrich-Schaeffer) [NEW]	-	VC28
<i>Eremocoris podagricus</i> (Fabricius) [NEW]	VC27 (B)	VC28 (5)
<i>Gastrodes abietum</i> Bergroth	-	VC28 (B)
<i>Gastrodes grossipes</i> (De Geer)	VC27	VC28
<i>Graptopeltus lynceus</i> (Fabricius)	VC27 (B)	VC28
<i>Henestaris halophilus</i> (Burmeister) [NEW]	-	VC28 (5)
<i>Heterogaster urticae</i> (Fabricius)	VC27	VC28
<i>Ischnocoris angustulus</i> (Boheman)	-	VC28
<i>Ischnodemus sabuleti</i> (Fallén) [NEW]	VC27	VC28 (1)
<i>Kleidocerys ericae</i> (Horváth)	VC27	-
<i>Kleidocerys resedae</i> (Panzer)	VC27	VC28 (1)
<i>Lamproplax picea</i> (Flor)	-	VC28 (A)
<i>Lasiosomus enervis</i> (Herrich-Schaeffer) [NEW]	-	VC28 (5)
<i>Macrodema microptera</i> (Curtis)	VC27 (B)	VC28 (A)
<i>Megalonotus antennatus</i> (Schilling) [NEW]	-	VC28 (5)
<i>Megalonotus chiragra</i> (Fabricius) [NEW]	VC27	VC28 (5)
<i>Megalonotus dilatatus</i> (Herrich-Schaeffer)	VC27 (B)	VC28 (B)
<i>Megalonotus praetextatus</i> (Herrich-Schaeffer)	VC27	VC28 (A)
<i>Megalonotus sabulicola</i> (Thomson)	-	VC28 (9)
<i>Nysius ericae</i> (Schilling)	-	VC28 (B)
<i>Nysius huttoni</i> F.B. White [NEW]	-	VC28 (5)
<i>Nysius senecionis</i> (Schilling)	VC27 (13)	VC28 (13)
<i>Nysius thymi</i> (Wolff)	VC27 (B)	VC28
<i>Ortholomus punctipennis</i> (Herrich-Schaeffer)	-	VC28 (7)
<i>Pachybrachius fracticollis</i> (Schilling)	VC27	VC28 (A)
<i>Peritrechus geniculatus</i> (Hahn)	VC27	VC28 (A)
<i>Peritrechus lundii</i> (Gmelin)	VC27 (B)	VC28 (A)
<i>Peritrechus nubilus</i> (Fallén)	VC27 (B)	VC28 (A)
<i>Plinthisus brevipennis</i> (Latreille)	VC27 (B)	VC28 (A)
<i>Raglius alboacuminatus</i> (Goeze)	-	VC28
<i>Rhyparochromus pini</i> (Linnaeus)	-	VC28 (B)
<i>Scolopostethus affinis</i> (Schilling)	VC27	VC28
<i>Scolopostethus decoratus</i> (Hahn)	VC27	VC28 (A)
<i>Scolopostethus pictus</i> (Schilling)	-	VC28
<i>Scolopostethus puberulus</i> Horváth	VC27	VC28 (A)
<i>Scolopostethus grandis</i> Horváth [NEW]	VC27 (B)	VC28 (5)
<i>Scolopostethus thomsoni</i> Reuter	VC27	VC28 (1)
<i>Sphragisticus nebulosus</i> (Fallén)	-	VC28 (15)
<i>Stygnocoris fuligineus</i> (Geoffroy)	VC27	VC28
<i>Stygnocoris rusticus</i> (Fallén)	VC27	VC28 (A)
<i>Stygnocoris sabulosus</i> (Schilling)	VC27	VC28 (A)
<i>Taphropeltus contractus</i> (Herrich-Schaeffer)	VC27	-
<i>Trapezonotus arenarius</i> (Linnaeus)	VC27	VC28 (A)
<i>Trapezonotus desertus</i> Seidenstücker [NEW]	VC27	-
<i>Trapezonotus dispar</i> Stål	VC27 (21)	-

BERYTIDAE

<i>Berytinus clavipes</i> (Fabricius)	-	VC28 (B)
<i>Berytinus crassipes</i> (Herrich-Schaeffer)	-	VC28
<i>Berytinus minor</i> (Herrich-Schaeffer)	VC27	VC28
<i>Berytinus montivagus</i> (Meyer-Dür)	VC27	VC28 (B)
<i>Berytinus signoreti</i> (Fieber)	VC27	VC28 (B)
<i>Gampsocoris punctipes</i> (Germar)	VC27	VC28 (A)
<i>Metatropis rufescens</i> (Herrich-Schaeffer) [NEW]	VC27 (B)	VC28 (5)
<i>Neides tipularius</i> (Linnaeus)	VC27	VC28

PIESMATIDAE

<i>Parapiesma quadratum</i> (Fieber)	VC27 (B)	VC28 (A)
<i>Piesma maculatum</i> (Laporte)	VC27 (B)	VC28 (A)

TINGIDAE

<i>Acalypta carinata</i> (Panzer)	VC27	VC28 (B)
<i>Acalypta parvula</i> (Fallén)	VC27	VC28 (A)
<i>Acalypta platycheila</i> (Fieber) [NEW]	VC27 (B)	-
<i>Agramma laetum</i> (Fallén)	VC27	VC28 (A)
<i>Campylosteira verna</i> (Fallén) [NEW]	-	VC28 (B)
<i>Catoplatus fabricii</i> (Stål) [NEW]	-	VC28
<i>Derephysia foliacea</i> (Fallén)	VC27	VC28 (A)
<i>Dictyla convergens</i> (Herrich-Schaeffer)	VC27	VC28
<i>Dictyonota fuliginosa</i> A. Costa	VC27	VC28 (A)
<i>Dictyonota strichnocera</i> Fieber	VC27	VC28 (A)
<i>Kalama tricornis</i> (Schrank)	VC27 (B)	VC28 (A)
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	VC27 (B)	VC28 (A)
<i>Stephanitis rhododrendri</i> Horváth [DELETED]	-	-
<i>Tingis ampliata</i> (Herrich-Schaeffer)	VC27	VC28 (1)
<i>Tingis cardui</i> (Linnaeus)	VC27	VC28
<i>Tingis reticulata</i> Herrich-Schaeffer [NEW]	-	VC28

REDUVIIDAE

<i>Coranus subapterus</i> (De Geer)	VC27 (B)	-
<i>Coranus woodroffei</i> P.V. Putshkov [NEW]	VC27 (B)	VC28 (B)
<i>Empicoris culiciformis</i> (De Geer)	VC27	VC28
<i>Empicoris vagabundus</i> (Linnaeus)	VC27	VC28 (A)
<i>Reduvius personatus</i> (Linnaeus)	VC27	VC28

NABIDAE

<i>Himacerus apterus</i> (Fabricius)	VC27	VC28
<i>Himacerus boops</i> (Schjødt)	VC27	VC28 (A)
<i>Himacerus major</i> (A. Costa)	VC27	VC28
<i>Himacerus mirmicoides</i> (O. Costa)	VC27	VC28
<i>Nabis brevis</i> Scholtz	VC27	VC28 (B)
<i>Nabis ericetorum</i> Scholtz	VC27	VC28 (11)
<i>Nabis ferox</i> (Linnaeus)	VC27	VC28 (1)
<i>Nabis flavomarginatus</i> Scholtz	VC27	VC28 (1)
<i>Nabis limbatus</i> Dahlbom	VC27	VC28 (1)
<i>Nabis lineatus</i> Dahlbom	VC27	VC28
<i>Nabis pseudoferus</i> Remane	VC27 (B)	VC28 (6)
<i>Nabis rugosus</i> (Linnaeus)	VC27 (B)	VC28 (1)

ANTHOCORIDAE

<i>Acompocoris alpinus</i> Reuter	VC27 (B)	VC28 (A)
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ANTHOCORIDAE (CONTINUED)

<i>Acompocoris pygmaeus</i> (Fallén)	VC27 (B)	VC28
<i>Anthocoris butleri</i> Le Quesne [NEW]	-	VC28 (5)
<i>Anthocoris confusus</i> Reuter	VC27	VC28 (A)
<i>Anthocoris gallarumulmi</i> (De Geer) [NEW]	VC27 (B)	-
<i>Anthocoris limbatus</i> Fieber [NEW]	-	VC28
<i>Anthocoris nemoralis</i> (Fabricius)	VC27	VC28 (A)
<i>Anthocoris nemorum</i> (Linnaeus)	VC27	VC28 (1)
<i>Anthocoris sarothamni</i> Douglas & Scott	VC27	VC28 (B)
<i>Anthocoris simulans</i> Reuter [NEW]	VC27 (B)	-
<i>Anthocoris visci</i> Douglas	VC27	VC28
<i>Brachysteles parvicornis</i> (A. Costa) [DELETED]	-	-
<i>Buchananiella continua</i> (F.B. White)	-	VC28 (20)
<i>Cardiastethus fasciiventris</i> (Garbiglietti)	VC27 (A)	VC28
<i>Dufouriellus ater</i> (Dufour)	VC27 (B)	VC28 (A)
<i>Lyctocoris campestris</i> (Fabricius)	VC27	VC28 (A)
<i>Orius laevigatus</i> (Fieber)	VC27 (B)	VC28 (A)
<i>Orius majusculus</i> (Reuter)	VC27 (B)	VC28 (B)
<i>Orius niger</i> (Wolff)	VC27	VC28 (A)
<i>Orius vicinus</i> (Ribaut)	VC27 (B)	VC28 (A)
<i>Temnostethus gracilis</i> Horváth [NEW]	VC27 (B)	VC28 (5)
<i>Temnostethus pusillus</i> (Herrich-Schaeffer) [NEW]	VC27	VC28 (5)
<i>Tetraphleps bicuspis</i> (Herrich-Schaeffer)	VC27	-
<i>Xylocoris cursitans</i> (Fallén)	VC27	VC28 (A)
<i>Xylocoris galactinus</i> (Fieber) [NEW]	VC27 (B)	-

CIMICIDAE

<i>Cimex columbarius</i> Jenyns [DELETED]	-	-
<i>Cimex lectularius</i> Linnaeus	VC27	VC28
<i>Cimex pipistrelli</i> Jenyns [DELETED]	-	-
<i>Oeciacus hirundinis</i> (Lamarck)	VC27	VC28

MICROPHYSIDAE

<i>Loricula coleoptrata</i> (Fallén) [NEW]	-	VC28 (5)
<i>Loricula distinguenda</i> (Reuter)	VC27	VC28 (A)
<i>Loricula elegantula</i> (Baerensprung)	VC27	VC28 (A)
<i>Loricula exilis</i> (Fallén)	VC27 (B)	-
<i>Loricula pselaphiformis</i> Curtis	VC27	-

MIRIDAE

<i>Acetropis gimmerthalii</i> (Flor)	VC27	VC28 (1)
<i>Adelphocoris lineolatus</i> (Goeze)	VC27	VC28 (1)
<i>Adelphocoris seticornis</i> (Fabricius) [NEW]	VC27 (B)	VC28 (B)
<i>Adelphocoris ticinensis</i> (Meyer-Dür)	VC27	VC28
<i>Agnocoris reclairei</i> (Wagner) [NEW]	VC27 (B)	-
<i>Alloeotomus gothicus</i> (Fallén) [NEW]	VC27 (B)	VC28 (5)
<i>Amblytylus brevicollis</i> Fieber	-	VC28 (B)
<i>Amblytylus nasutus</i> (Kirschbaum)	VC27 (B)	VC28 (1)
<i>Apolygus lucorum</i> (Meyer-Dür)	VC27	VC28
<i>Apolygus spinolae</i> (Meyer-Dür)	VC27	VC28
<i>Asciodema obsoleta</i> (Fieber)	VC27 (B)	-
<i>Atractotomus magnicornis</i> (Fallén)	VC27 (B)	-
<i>Atractotomus mali</i> (Meyer-Dür)	VC27	VC28 (1)
<i>Atractotomus parvulus</i> Reuter [NEW]	-	VC28
<i>Blepharidopterus angulatus</i> (Fallén)	VC27	VC28

MIRIDAE (CONTINUED)

<i>Blepharidopterus diaphanus</i> (Kirschbaum)	VC27 (A)	-
<i>Bothynotus pilosus</i> (Boheman)	VC27	VC28 (B)
<i>Bryocoris pteridis</i> (Fallén)	VC27	VC28
<i>Calocoris alpestris</i> (Meyer-Dür) [NEW]	VC27 (B)	-
<i>Calocoris roseomaculatus</i> (De Geer)	VC27	VC28 (1)
<i>Camptozygum aequale</i> (Villers)	VC27	-
<i>Campylomma verbasci</i> (Meyer-Dür) [NEW]	-	VC28 (5)
<i>Campyloneura virgula</i> (Herrich-Schaeffer)	VC27	VC28 (1)
<i>Capsodes gothicus</i> (Linnaeus)	VC27 (B)	VC28 (1)
<i>Capsus ater</i> (Linnaeus)	VC27	VC28 (1)
<i>Capsus wagneri</i> (Remane)	VC27 (12)	-
<i>Charagochilus gyllenhalii</i> (Fallén)	VC27	VC28 (1)
<i>Chlamydatus evanescens</i> (Boheman) [NEW]	-	VC28 (5)
<i>Chlamydatus pulicarius</i> (Fallén) [NEW]	-	VC28 (5)
<i>Chlamydatus pullus</i> (Reuter)	-	VC28 (A)
<i>Chlamydatus saltitans</i> (Fallén)	-	VC28 (A)
<i>Closterotomus fulvomaculatus</i> (De Geer)	-	VC28 (B)
<i>Closterotomus norwegicus</i> (Gmelin)	VC27	VC28 (1)
<i>Closterotomus trivialis</i> (A. Costa) [NEW]	-	VC28 (B)
<i>Compsidolon salicellum</i> (Herrich-Schaeffer)	VC27	VC28
<i>Conostethus brevis</i> Reuter [DELETED]	-	-
<i>Conostethus griseus</i> Douglas & Scott	VC27	VC28
<i>Conostethus roseus</i> (Fallén)	VC27	VC28 (1)
<i>Cyllocoris histrionius</i> (Linnaeus)	VC27	VC28
<i>Cyrtorhinus caricis</i> (Fallén)	VC27	-
<i>Deraeocoris flavilinea</i> (A. Costa) [NEW]	VC27 (B)	VC28 (5)
<i>Deraeocoris lutescens</i> (Schilling)	VC27	VC28
<i>Deraeocoris ruber</i> (Linnaeus)	VC27	VC28 (1)
<i>Deraeocoris scutellaris</i> (Fabricius)	VC27	VC28 (B)
<i>Dichrooscytus gustavi</i> Josifov [NEW]	VC27 (B)	-
<i>Dichrooscytus rufipennis</i> (Fallén) [DELETED]	-	-
<i>Dicyphus annulatus</i> (Wolff)	VC27	VC28
<i>Dicyphus constrictus</i> (Boheman) [NEW]	VC27 (B)	-
<i>Dicyphus epilobii</i> Reuter	VC27	VC28
<i>Dicyphus errans</i> (Wolff)	VC27	VC28
<i>Dicyphus globulifer</i> (Fallén)	VC27	VC28
<i>Dicyphus pallicornis</i> (Fieber)	VC27	VC28 (A)
<i>Dicyphus stachydis</i> J. Sahlberg	VC27	VC28
<i>Dryophilocoris flavoquadrimaculatus</i> (De Geer)	VC27	VC28
<i>Europiella artemisiae</i> (Becker) [NEW]	VC27	VC28
<i>Europiella decolor</i> (Uhler) [NEW]	VC27	VC28
<i>Fieberocapsus flaveolus</i> (Reuter)	VC27 (B)	-
<i>Globiceps flavomaculatus</i> (Fabricius) [DELETED]	-	-
<i>Grypocoris stysi</i> (Wagner)	VC27	-
<i>Hallodapus rufescens</i> (Burmeister) [DELETED]	-	-
<i>Halticus apterus</i> (Linnaeus)	VC27 (B)	VC28
<i>Halticus luteicollis</i> (Panzer) [NEW]	-	VC28 (1)
<i>Harpocera thoracica</i> (Fallén)	VC27	VC28
<i>Heterocordylus genistae</i> (Scopoli) [DELETED]	-	-
<i>Heterocordylus tibialis</i> (Hahn)	VC27	VC28
<i>Heterotoma planicornis</i> (Pallas)	VC27	VC28 (1)
<i>Hoplomachus thunbergii</i> (Fallén) [NEW]	-	VC28 (5)
<i>Leptopterna dolabrata</i> (Linnaeus)	VC27	VC28 (1)
<i>Leptopterna ferrugata</i> (Fallén)	VC27	VC28 (1)

MIRIDAE (CONTINUED)

<i>Liocoris tripustulatus</i> (Fabricius)	VC27	VC28 (1)
<i>Lopus decolor</i> (Fallén)	VC27	VC28 (1)
<i>Lygocoris pabulinus</i> (Linnaeus)	VC27	VC28
<i>Lygocoris rugicollis</i> (Fallén)	VC27 (B)	VC28
<i>Lygus maritimus</i> Wagner [NEW]	VC27	VC28
<i>Lygus pratensis</i> (Linnaeus)	VC27	VC28
<i>Lygus rugulipennis</i> Poppius	VC27	VC28 (1)
<i>Lygus wagneri</i> Remane [NEW]	VC27	-
<i>Macrolophus pygmaeus</i> (Rambur) [NEW]	VC27	-
<i>Macrotylus paykullii</i> (Fallén)	VC27 (B)	VC28
<i>Macrotylus solitarius</i> (Meyer-Dür) [NEW]	VC27 (B)	-
<i>Malacocoris chlorizans</i> (Panzer)	VC27	VC28
<i>Mecomma ambulans</i> (Fallén)	VC27 (B)	VC28 (1)
<i>Mecomma dispar</i> (Boheman)	VC27 (B)	VC28 (B)
<i>Megacoelum beckeri</i> (Fieber) [NEW]	-	VC28 (B)
<i>Megacoelum infusum</i> (Herrich-Schaeffer)	VC27 (B)	VC28
<i>Megaloceroea recticornis</i> (Geoffroy)	VC27 (B)	VC28 (1)
<i>Megalocoleus molliculus</i> (Fallén)	VC27 (B)	VC28
<i>Megalocoleus tanacetii</i> (Fallén)	VC27	VC28 (A)
<i>Miris striatus</i> (Linnaeus)	VC27	VC28 (1)
<i>Monalocoris filicis</i> (Linnaeus)	VC27	VC28 (1)
<i>Myrmecoris gracilis</i> (R.F. Sahlberg) [NEW]	VC27	-
<i>Neolygus contaminatus</i> (Fallén)	VC27	VC28 (1)
<i>Neolygus populi</i> (Leston) [NEW]	VC27 (B)	-
<i>Neolygus viridis</i> (Fallén)	VC27 (B)	VC28
<i>Notostira elongata</i> (Geoffroy)	VC27	VC28 (1)
<i>Oncotylus viridiflavus</i> (Goeze) [NEW]	VC27	VC28
<i>Orthocephalus coriaceus</i> (Fabricius)	-	VC28 (B)
<i>Orthocephalus saltator</i> (Hahn)	-	VC28 (1)
<i>Orthonotus rufifrons</i> (Fallén)	VC27	VC28 (1)
<i>Orthops basalis</i> (A. Costa) [NEW]	VC27	VC28
<i>Orthops campestris</i> (Linnaeus) [NEW]	VC27	VC28 (1)
<i>Orthops kalmii</i> (Linnaeus)	VC27 (B)	VC28
<i>Orthotylus adenocarpi</i> (Perris)	VC27 (B)	VC28 (B)
<i>Orthotylus bilineatus</i> (Fallén) [DELETED]	-	-
<i>Orthotylus concolor</i> (Kirschbaum)	VC27 (B)	VC28
<i>Orthotylus ericetorum</i> (Fallén)	VC27	VC28
<i>Orthotylus flavinervis</i> (Kirschbaum)	VC27 (B)	VC28
<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	VC27	VC28
<i>Orthotylus marginalis</i> Reuter	VC27	VC28 (A)
<i>Orthotylus moncreaffi</i> (Douglas & Scott)	VC27 (B)	VC28
<i>Orthotylus nassatus</i> (Fabricius)	VC27 (B)	VC28
<i>Orthotylus rubidus</i> (Puton)	VC27 (18)	VC28
<i>Orthotylus ochrotrichus</i> Fieber [NEW]	VC27 (B)	VC28
<i>Orthotylus tenellus</i> (Fallén)	VC27	VC28
<i>Orthotylus virescens</i> (Douglas & Scott)	VC27	VC28
<i>Orthotylus viridinervis</i> (Kirschbaum) [DELETED]	-	-
<i>Pachytomella parallela</i> (Meyer-Dür) [NEW]	-	VC28 (B)
<i>Pantilius tunicatus</i> (Fabricius)	VC27	VC28
<i>Phoenicocoris obscurellus</i> (Fallén)	VC27	VC28 (A)
<i>Phylus coryli</i> (Linnaeus)	VC27	VC28
<i>Phylus melanocephalus</i> (Linnaeus)	VC27	VC28 (1)
<i>Phytocoris dimidiatus</i> Kirschbaum	VC27	-
<i>Phytocoris longipennis</i> Flor	VC27	VC28

MIRIDAE (CONTINUED)

<i>Phytocoris populi</i> (Linnaeus)	VC27	VC28
<i>Phytocoris reuteri</i> Saunders	VC27 (B)	VC28
<i>Phytocoris tiliae</i> (Fabricius)	VC27	VC28
<i>Phytocoris ulmi</i> (Linnaeus)	VC27 (B)	VC28 (1)
<i>Phytocoris varipes</i> Boheman	VC27 (B)	VC28 (1)
<i>Pilophorus cinnamopterus</i> (Kirschbaum)	-	VC28
<i>Pilophorus clavatus</i> (Linnaeus) [DELETED]	-	-
<i>Pilophorus perplexus</i> Douglas & Scott	-	VC28
<i>Pinalitus atomarius</i> (Meyer-Dür) [DELETED]	-	-
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	VC27	VC28
<i>Pinalitus rubricatus</i> (Fallén)	VC27	VC28
<i>Pinalitus viscicola</i> (Puton)	-	VC28
<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	VC27	VC28 (1)
<i>Plagiognathus arbustorum</i> (Fabricius)	VC27	VC28 (1)
<i>Plagiognathus chrysanthemi</i> (Wolff)	VC27	VC28 (1)
<i>Platycranus bicolor</i> (Douglas & Scott)	VC27	VC28
<i>Plesiodema pinetella</i> (Zetterstedt) [NEW]	VC27 (B)	VC28
<i>Polymerus nigrita</i> (Fallén)	VC27	VC28 (1)
<i>Polymerus palustris</i> (Reuter)	VC27	VC28 (B)
<i>Polymerus unifasciatus</i> (Fabricius)	VC27	VC28 (1)
<i>Polymerus vulneratus</i> (Panzer)	VC27	-
<i>Psallodema fieberi</i> (Fieber) [NEW]	VC27 (B)	-
<i>Psallus albicinctus</i> (Kirschbaum) [NEW]	VC27 (B)	-
<i>Psallus ambiguus</i> (Fallén)	VC27 (B)	VC28
<i>Psallus assimilis</i> Stichel [NEW]	VC27 (B)	-
<i>Psallus confusus</i> Rieger [NEW]	VC27 (B)	-
<i>Psallus falleni</i> Reuter	VC27	VC28 (1)
<i>Psallus flavellus</i> Stichel	VC27 (B)	-
<i>Psallus haematodes</i> (Gmelin)	VC27	VC28
<i>Psallus lepidus</i> Fieber	VC27 (B)	-
<i>Psallus mollis</i> (Mulsant & Rey) [NEW]	VC27 (B)	-
<i>Psallus perrisi</i> (Mulsant & Rey) [NEW]	VC27	VC28
<i>Psallus salicis</i> (Kirschbaum)	VC27	VC28
<i>Psallus variabilis</i> (Fallén) [NEW]	VC27	VC28
<i>Psallus varians</i> (Herrich-Schaeffer)	VC27	VC28
<i>Psallus wagneri</i> Ossiannilsson [NEW]	VC27	-
<i>Pseudoloxops coccineus</i> (Meyer-Dür)	VC27 (B)	VC28 (A)
<i>Rhabdomiris striatellus</i> (Fabricius)	VC27	VC28 (1)
<i>Salicarus roseri</i> (Herrich-Schaeffer)	VC27 (B)	-
<i>Stenodema calcarata</i> (Fallén)	VC27	VC28 (1)
<i>Stenodema laevigata</i> (Linnaeus)	VC27	VC28 (1)
<i>Stenodema trispinosa</i> Reuter	VC27	VC28
<i>Stenotus binotatus</i> (Fabricius)	VC27 (1)	VC28 (1)
<i>Sthenarus rotermundi</i> (Scholtz) [DELETED]	-	-
<i>Strongylocoris leucocephalus</i> (Linnaeus)	-	VC28 (A)
<i>Systellonotus triguttatus</i> (Linnaeus)	-	VC28 (A)
<i>Teratocoris antennatus</i> (Boheman)	VC27 (A)	VC28
<i>Teratocoris saundersi</i> Douglas & Scott	VC27	VC28 (A)
<i>Trigonotylus caelestialium</i> (Kirkaldy) [NEW]	-	VC28 (5)
<i>Trigonotylus psammaecolor</i> Reuter	VC27 (B)	VC28
<i>Trigonotylus ruficornis</i> (Geoffroy) [NEW]	VC27	VC28 (1)
<i>Tupiocoris rhododendri</i> (Dolling) [NEW]	VC27 (B)	-
<i>Tuponia mixticolor</i> (A. Costa) [NEW]	-	VC28
<i>Tythus pubescens</i> (Knight) [NEW]	VC27 (B)	-

MIRIDAE (CONTINUED)

<i>Tytthus pygmaeus</i> (Zetterstedt)	VC27 (B)	VC28 (B)
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CERATOCOMBIDAE

<i>Ceratocombus coleopratus</i> (Zetterstedt)	VC27	VC28 (A)
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DIPSOCORIDAE

<i>Pachycoleus waltli</i> Fieber	VC27 (8)	-
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SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	VC27	VC28
<i>Chartoscirta cocksii</i> (Curtis)	-	VC28 (11)
<i>Chartoscirta elegantula</i> (Fallén)	-	VC28 (11)
<i>Chiloxanthus pilosus</i> (Fallén)	VC27	VC28
<i>Halosalda lateralis</i> (Fallén)	VC27	VC28
<i>Micracanthia marginalis</i> (Fallén) [DELETED]	-	-
<i>Salda littoralis</i> (Linnaeus)	VC27	VC28
<i>Salda muelleri</i> (Gmelin)	VC27	VC28
<i>Saldula opacula</i> (Zetterstedt)	VC27	-
<i>Saldula orthochila</i> (Fieber)	VC27	VC28
<i>Saldula pallipes</i> (Fabricius) [NEW]	-	VC28
<i>Saldula palustris</i> (Douglas) [NEW]	VC27	VC28
<i>Saldula pilosella</i> (Thomson)	-	VC28
<i>Saldula saltatoria</i> (Linnaeus)	VC27	VC28

MESOVELIIDAE

<i>Mesovelia furcata</i> Mulsant & Rey	VC27 (2)	VC28 (2)
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HEBRIDAE

<i>Hebrus pusillus</i> (Fallén)	VC27 (2)	VC28 (2)
<i>Hebrus ruficeps</i> Thomson	VC27 (14)	VC28 (14)

HYDROMETRIDAE

<i>Hydrometra gracilentia</i> Horváth	VC27 (2)	-
<i>Hydrometra stagnorum</i> (Linnaeus)	VC27 (2)	VC28 (2)

VELIIDAE

<i>Microvelia buenoi</i> Drake	VC27 (2)	VC28 (2)
<i>Microvelia reticulata</i> (Burmeister)	VC27 (2)	VC28 (2)
<i>Velia caprai</i> Tamanini	VC27 (2)	VC28 (2)

GERRIDAE

<i>Aquarius paludum</i> (Fabricius) [NEW]	VC27 (3)	-
<i>Gerris argentatus</i> Schummel	VC27 (2)	VC28 (2)
<i>Gerris gibbifer</i> Schummel [DELETED]	-	-
<i>Gerris lacustris</i> (Linnaeus)	VC27 (2)	VC28 (2)
<i>Gerris lateralis</i> Schummel	-	VC28 (2)
<i>Gerris odontogaster</i> (Zetterstedt)	VC27 (2)	VC28 (2)
<i>Gerris thoracicus</i> Schummel	VC27 (2)	VC28 (2)
<i>Linnoporus rufoscutellatus</i> (Latreille)	-	VC28 (3)

NEPIDAE

<i>Nepa cinerea</i> Linnaeus	VC27 (2)	VC28 (2)
<i>Ranatra linearis</i> (Linnaeus)	VC27 (2)	VC28 (2)

NAUCORIDAE

<i>Ilyocoris cimicoides</i> (Linnaeus)	VC27 (2)	VC28 (2)
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APHELOCHEIRIDAE

<i>Aphelocheirus aestivalis</i> (Fabricius)	VC27 (2)	VC28 (2)
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NOTONECTIDAE

<i>Notonecta glauca</i> Linnaeus	VC27 (2)	VC28 (1)
<i>Notonecta maculata</i> Fabricius	VC27 (2)	VC28 (2)
<i>Notonecta obliqua</i> Thunberg	VC27 (16)	VC28 (A)
<i>Notonecta viridis</i> Delcourt	VC27 (2)	VC28 (2)

PLEIDAE

<i>Plea minutissima</i> Leach	VC27 (2)	VC28 (2)
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CORIXIDAE

<i>Arctocorisa germari</i> (Fieber)	VC27 (2)	VC28 (2)
<i>Callicorixa praeusta</i> (Fieber)	VC27 (2)	VC28 (2)
<i>Corixa affinis</i> Leach	-	VC28 (22)
<i>Corixa dentipes</i> Thomson	VC27 (2)	VC28 (2)
<i>Corixa panzeri</i> Fieber	VC27 (2)	VC28 (2)
<i>Corixa punctata</i> (Illiger)	VC27 (2)	VC28 (1)
<i>Cymatia bondsdorffii</i> (C.R. Sahlberg)	VC27 (2)	VC28 (2)
<i>Cymatia coleoptrata</i> (Fabricius)	VC27 (2)	VC28 (2)
<i>Glaenocorisa propinqua</i> (Fieber)	VC27 (16)	-
<i>Hesperocorixa linnaei</i> (Fieber)	VC27 (2)	VC28 (1)
<i>Hesperocorixa moesta</i> (Fieber)	VC27 (2)	VC28 (2)
<i>Hesperocorixa sahlbergi</i> (Fieber)	VC27 (2)	VC28 (1)
<i>Micronecta minutissima</i> (Linnaeus)	VC27 (2)	-
<i>Micronecta poweri</i> (Douglas & Scott)	VC27 (2)	VC28 (2)
<i>Micronecta scholtzi</i> (Fieber)	VC27 (2)	-
<i>Paracorixa concinna</i> (Fieber)	VC27 (2)	VC28 (2)
<i>Sigara distincta</i> (Fieber)	VC27 (2)	VC28 (2)
<i>Sigara dorsalis</i> (Leach)	VC27 (2)	VC28 (2)
<i>Sigara falleni</i> (Fieber)	VC27 (2)	VC28 (2)
<i>Sigara fossarum</i> (Leach)	VC27 (2)	VC28 (A)
<i>Sigara iactans</i> Jansson	VC27 (10)	VC28 (10)
<i>Sigara lateralis</i> (Leach)	VC27 (2)	VC28 (2)
<i>Sigara limitata</i> (Fieber)	-	VC28 (2)
<i>Sigara longipalis</i> (J. Sahlberg)	VC27 (17)	-
<i>Sigara nigrolineata</i> (Fieber)	VC27 (2)	VC28 (2)
<i>Sigara selecta</i> (Fieber) [DELETED]	-	-
<i>Sigara semistriata</i> (Fieber)	VC27 (2)	-
<i>Sigara stagnalis</i> (Leach)	VC27 (2)	VC28 (2)
<i>Sigara striata</i> (Linnaeus)	VC27 (16)	-
<i>Sigara venusta</i> (Douglas & Scott)	VC27 (2)	VC28 (2)

TABLE 1. The references relating to the numbers in the list of divided records.

1	Ryan (2017)	12	Hodge (1991)
2	Huxley (2003)	13	Alexander (1999)
3	Nobes (2003)	14	Kirby (1999)
4	Toms (2005)	15	Judd (2010)
5	Ryan (2016c)	16	Nobes (2006)
6	Massee (1958)	17	Blackburn (2007)
7	Russell (1968)	18	Widgery (2007)
8	Irwin (1982)	19	Wells (2008)
9	Kirby (1984)	20	Nau (2008)
10	Nau & Brooke (2006)	21	Widgery (2010)
11	Kirby & Lambert (1989)	22	Constable (2011)

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Appendix A: records from a dataset provided by Steve Lane

- Aradus depressus* (Fabricius) (Aradidae)
WEST NORFOLK (VC28): 11 May 2015, TL7888, near Weeting.
- Eurygaster testudinaria* (Geoffroy) (Scutelleridae)
WEST NORFOLK (VC28): 09 Sep 2013, TF7316, East Walton Common.
- Podops inunctus* (Fabricius) (Pentatomidae)
WEST NORFOLK (VC28): 26 Sep 2013, TF7511, Narborough Dismantled Railway Line NR.
- Arenocoris fallenii* (Schilling) (Coreidae)
WEST NORFOLK (VC28): 10 May 2014, TL7887, Brandon.
- Arenocoris waltlii* (Herrich-Schaeffer) (Coreidae)
WEST NORFOLK (VC28): 10 May 2014, TL7887, Brandon.
- Gonocerus acuteangulatus* (Goeze) (Coreidae)
WEST NORFOLK (VC28): 08 Dec 2014, TF7243, Holme, Holmehurst Track.
- Corizus hyoscyami* (Linnaeus) (Rhopalidae)
WEST NORFOLK (VC28): 05 Sep 2013, TF6432, Snettisham (near yacht club).
- Liorhyssus hyalinus* (Fabricius) (Rhopalidae)
WEST NORFOLK (VC28): 03 Oct 2013, TF7605, near Beachamwell.
- Stictopleurus abutilon* (Rossi) (Rhopalidae)
WEST NORFOLK (VC28): 24 Sep 2013, TL7893, Cranwich Heath.
- Cymus melanocephalus* Fieber (Lygaeidae)
EAST NORFOLK (VC27): 18 Jul 2014, TG3621, Catfield Fen.
- Lamproplax picea* (Flor) (Lygaeidae)
WEST NORFOLK (VC28): 2015, TL89.
- Macrodera microptera* (Curtis) (Lygaeidae)
WEST NORFOLK (VC28): 11 Sep 2013, TF6728, Dersingham Bog.
- Megalonotus chiragra* (Fabricius) (Lygaeidae)
WEST NORFOLK (VC28): 04 Sep 2013, TF6432, Snettisham (near yacht club).
- Megalonotus praetextatus* (Herrich-Schaeffer) (Lygaeidae)
WEST NORFOLK (VC28): 23 May 2014, TL7887, Brandon.
- Pachybrachius fracticollis* (Schilling) (Lygaeidae)
WEST NORFOLK (VC28): 30 Apr 2013, TF7316, East Walton Common.

- Peritrechus geniculatus* (Hahn) (Lygaeidae)
WEST NORFOLK (VC28): 12 Jun 2014, TL7887, Brandon.
- Peritrechus lundii* (Gmelin) (Lygaeidae)
WEST NORFOLK (VC28): 18 Aug 2014, TF7144, Holme.
- Peritrechus nubilus* (Fallén) (Lygaeidae)
WEST NORFOLK (VC28): 16 Jan 2014, TF7600, Foulden Common NR (north side of road).
- Plinthinus brevipennis* (Latreille) (Lygaeidae)
WEST NORFOLK (VC28): 29 Apr 2014, TF7325, Hillington Road Verge NR.
- Scolopostethus decoratus* (Hahn) (Lygaeidae)
WEST NORFOLK (VC28): 11 Sep 2013, TF6728, Dersingham Bog.
- Scolopostethus puberulus* Horváth (Lygaeidae)
WEST NORFOLK (VC28): 13 Feb 2014, TF6710, Shouldham Warren.
- Stygnocoris rusticus* (Fallén) (Lygaeidae)
WEST NORFOLK (VC28): 01 Sep 2014, TF7144, Holme.
- Stygnocoris sabulosus* (Schilling) (Lygaeidae)
WEST NORFOLK (VC28): 18 Sep 2013, TF6719, Bawsey Country Park.
- Trapezonotus arenarius* (Linnaeus) (Lygaeidae)
WEST NORFOLK (VC28): 23 Sep 2013, TF6943, Hunstanton dunes.
- Gampsocoris punctipes* (Germar) (Berytidae)
WEST NORFOLK (VC28): 27 Jul 2013, TF6637, Heacham dunes.
- Parapiesma quadratum* (Fieber) (Piesmatidae)
WEST NORFOLK (VC28): 14 Apr 2012, TF6431, Snettisham RSPB Reserve.
- Piesma maculatum* (Laporte) (Piesmatidae)
WEST NORFOLK (VC28): 21 Jul 2014, TF7142, Holme, Green Bank (east end).
- Acalypta parvula* (Fallén) (Tingidae)
WEST NORFOLK (VC28): 09 Sep 2013, TF7815, West Acre Common.
- Agramma laetum* (Fallén) (Tingidae)
WEST NORFOLK (VC28): 2015, TL89.
- Derephysia foliacea* (Fallén) (Tingidae)
WEST NORFOLK (VC28): 2015, TL88.
- Dictyonota fuliginosa* A. Costa (Tingidae)
WEST NORFOLK (VC28): 24 Sep 2013, TL8287, Santon Warren.
- Dictyonota strichnocera* Fieber (Tingidae)
WEST NORFOLK (VC28): 22 Sep 2014, TF7044, Holme.
- Kalama tricornis* (Schrank) (Tingidae)
WEST NORFOLK (VC28): 12 Sep 2013, TF6834, Snettisham, Carrstone Pit (Frimstone Ltd).
- Physatocheila dumetorum* (Herrich-Schaeffer) (Tingidae)
WEST NORFOLK (VC28): 27 Apr 2014, TL7887, Brandon.
- Empicoris vagabundus* (Linnaeus) (Reduviidae)
WEST NORFOLK (VC28): 28 Jul 2014, TF7243, Holme, Holmehurst Track.
- Himacerus boops* (Schiødte) (Nabidae)
WEST NORFOLK (VC28): 2015, TL89.
- Acompocoris alpinus* Reuter (Anthocoridae)
WEST NORFOLK (VC28): 09 Jul 2015, TF6941, Hunstanton Park.
- Anthocoris confusus* Reuter (Anthocoridae)
WEST NORFOLK (VC28): 27 Jul 2014, TF941018, Caudle Springs Fen, Carbrooke.
- Anthocoris nemoralis* (Fabricius) (Anthocoridae)
WEST NORFOLK (VC28): 10 Jun 2014, TL7887, Brandon.
- Cardiastethus fasciiventris* (Garbiglietti) (Anthocoridae)
EAST NORFOLK (VC27): 04 Sep 2014, TG3205, Wheatfen.
- Dufouriellus ater* (Dufour) (Anthocoridae)
WEST NORFOLK (VC28): 02 Oct 2014, TF7039, Ringstead woodland and quarry.
- Lyctocoris campestris* (Fabricius) (Anthocoridae)
WEST NORFOLK (VC28): 04 Oct 2013, TF7705, Cockleycley Wood.

- Orius laevigatus* (Fieber) (Anthocoridae)
WEST NORFOLK (VC28): 15 Sep 2014, TF7244, Holme saltmarsh and path.
- Orius niger* (Wolff) (Anthocoridae)
WEST NORFOLK (VC28): 12 Sep 2013, TF6834, Snettisham, Carrstone Pit (Frimstone Ltd).
- Orius vicinus* (Ribaut) (Anthocoridae)
WEST NORFOLK (VC28): 15 Sep 2014, TF7244, Holme saltmarsh and path.
- Temnostethus pusillus* (Herrich-Schaeffer) (Anthocoridae)
WEST NORFOLK (VC28): 15 May 2014, TL7786, Brandon.
- Xylocoris cursitans* (Fallén) (Anthocoridae)
WEST NORFOLK (VC28): 01 Apr 2014, TF6819, Bawsey Country Park RSPB area.
- Loricula distinguenda* (Reuter) (Microphysidae)
WEST NORFOLK (VC28): 09 Jul 2015, TF6941, Hunstanton Park.
- Loricula elegantula* (Baerensprung) (Microphysidae)
WEST NORFOLK (VC28): 27 Jul 2014, TF941018, Caudle Springs Fen, Carbrooke.
- Blepharidopterus diaphanus* (Kirschbaum) (Miridae)
EAST NORFOLK (VC27): 04 Sep 2014, TG3205, Wheatfen.
- Chlamydatus pullus* (Reuter) (Miridae)
WEST NORFOLK (VC28): 24 Sep 2013, TL7794, Cranwich Camp.
- Chlamydatus saltitans* (Fallén) (Miridae)
WEST NORFOLK (VC28): 12 Jun 2014, TL7887, Brandon.
- Dicyphus pallicornis* (Fieber) (Miridae)
WEST NORFOLK (VC28): 08 Mar 2015, TF696166, East Winch, Lancaster Way.
- Megalocoleus tanaceti* (Fallén) (Miridae)
WEST NORFOLK (VC28): 21 Jul 2014, TF7144, Holme.
- Orthotylus marginalis* Reuter (Miridae)
WEST NORFOLK (VC28): 10 Jun 2014, TL7887, Brandon.
- Phoenicocoris obscurellus* (Fallén) (Miridae)
WEST NORFOLK (VC28): 09 Jul 2015, TF6941, Hunstanton Park.
- Pseudoloxops coccineus* (Meyer-Dür) (Miridae)
WEST NORFOLK (VC28): 21 Jul 2014, TF7142, Holme, Green Bank (east end).
- Strongylocoris leucocephalus* (Linnaeus) (Miridae)
WEST NORFOLK (VC28): 28 Jul 2013, TF6940, Ringstead Downs NR.
- Systellonotus triguttatus* (Linnaeus) (Miridae)
WEST NORFOLK (VC28): 2015, TL89.
- Teratocoris antennatus* (Boheman) (Miridae)
EAST NORFOLK (VC27): 04 Sep 2014, TG3205, Wheatfen.
- Teratocoris saundersi* Douglas & Scott (Miridae)
WEST NORFOLK (VC28): 27 Jul 2013, TF7344, Thornham.
- Ceratocombus coleoptratus* (Zetterstedt) (Ceratocombidae)
WEST NORFOLK (VC28): 30 Sep 2013, TF6524, Ling Common, North Wootton.
- Notonecta obliqua* Thunberg (Notonectidae)
WEST NORFOLK (VC28): 19 Jan 2015, TF6728, Dersingham Bog.
- Sigara fossarum* (Leach) (Corixidae)
WEST NORFOLK (VC28): 29 Oct 2012, TF750439, Titchwell RSPB reedbed pond.

Appendix B: records from a dataset provided by Rob Coleman

- Aradus aterrimus* Fieber (Aradidae)
WEST NORFOLK (VC28): 1997 - 1998, TF81, Castle Acre.
- Aradus depressus* (Fabricius) (Aradidae)
EAST NORFOLK (VC27): 08-May-16, TG4009, Constable Doles.
- Legnotus limbosus* (Geoffroy) (Cydnidae)
EAST NORFOLK (VC27): 21-Jun-16, TM2499, Shotesham.
- Sehirus luctuosus* Mulsant & Rey (Cydnidae)
EAST NORFOLK (VC27): 01/05/2015, TG091122, East Tuddenham.

- Eurygaster testudinaria* (Geoffroy) (Scutelleridae)
EAST NORFOLK (VC27): 02/09/2015, TG0522, Foxley Wood.
- Odontoscelis fuliginosa* (Linnaeus) (Scutelleridae)
WEST NORFOLK (VC28): 01/01/1800, TF84, Burnham.
- Dolycoris baccarum* (Linnaeus) (Pentatomidae)
EAST NORFOLK (VC27): 02/09/2015, TG0522, Foxley Wood.
- Eurydema oleracea* (Linnaeus) (Pentatomidae)
EAST NORFOLK (VC27): 27/09/2015, TG299305, Spa Common.
- Neottiglossa pusilla* (Gmelin) (Pentatomidae)
EAST NORFOLK (VC27): 08-Jun-15, TG4821, Winterton North Dunes.
- Peribalus strictus* (Fabricius) (Pentatomidae)
EAST NORFOLK (VC27): 18/03/2013, TG120020, Norwich Road, Wymondham.
- Rhacognathus punctatus* (Linnaeus) (Pentatomidae)
WEST NORFOLK (VC28): 13-Apr-16, TF6728, Dersingham Bog.
- Arenocoris fallenii* (Schilling) (Coreidae)
EAST NORFOLK (VC27): 17-Aug-15, TG189126, Drayton hospital.
- Bathysolen nubilus* (Fallén) (Coreidae)
EAST NORFOLK (VC27): 01/01/1800, TG11, Sparham.
- Ceraleptus lividus* Stein (Coreidae)
EAST NORFOLK (VC27): 17-Aug-15, TG189126, Drayton hospital.
- Coreus marginatus* (Linnaeus) (Coreidae)
EAST NORFOLK (VC27): 19-Sep-15, TG165424, Beeston Common.
- Leptoglossus occidentalis* Heidemann (Coreidae)
EAST NORFOLK (VC27): 23/09/2014, NR116SZ, Aylsham.
WEST NORFOLK (VC28): 13-Nov-15, TF9144, Wells next the Sea.
- Syromastus rhombeus* (Linnaeus) (Coreidae)
EAST NORFOLK (VC27): 12-Sep-15, TG287377, Gimmingham Railway line.
- Corizus hyoscyami* (Linnaeus) (Rhopalidae)
EAST NORFOLK (VC27): 30-Sep-15, TG171239, Marsham Heath.
- Liorhyssus hyalinus* (Fabricius) (Rhopalidae)
EAST NORFOLK (VC27): 22/06/1998, TG22, Blickling Hall Estate.
- Rhopalus maculatus* (Fieber) (Rhopalidae)
EAST NORFOLK (VC27): 18/08/1984, TM046797, Redgrave and Lopham Fens.
- Rhopalus rufus* Schilling (Rhopalidae)
WEST NORFOLK (VC28): 16/09/1997, TF790452, Brancaster.
- Rhopalus subrufus* (Gmelin) (Rhopalidae)
EAST NORFOLK (VC27): 10-May-16, TG139411, Sheringham Park.
- Pyrrhocoris apterus* (Linnaeus) (Pyrrhocoridae)
EAST NORFOLK (VC27): 07-Apr-06, TM298989, Brooke.
- Aphanus rolandri* (Linnaeus) (Lygaeidae)
EAST NORFOLK (VC27): 26-Sep-15, TG251295, Springfields, Felmingham.
- Cymus clavicularis* (Fallén) (Lygaeidae)
EAST NORFOLK (VC27): 23/08/2006, TG2441, Overstrand - Cromer cliffs.
- Eremocoris podagricus* (Fabricius) (Lygaeidae)
EAST NORFOLK (VC27): 4-Feb-2016, TG407105, Roman Wood, Acle.
- Gastrodes abietum* Bergroth (Lygaeidae)
WEST NORFOLK (VC28): 17/06/2012, TL936940, Breckles Heath.
- Graptopeltus lynceus* (Fabricius) (Lygaeidae)
EAST NORFOLK (VC27): 20-May-15, TG485218, Winterton Dunes.
- Macrodera microptera* (Curtis) (Lygaeidae)
EAST NORFOLK (VC27): 30-Sep-15, TG1723, Marsham Heath.
- Megalonotus dilatatus* (Herrich-Schaeffer) (Lygaeidae)
EAST NORFOLK (VC27): 14/05/1988, TG087363, Holt Lowes.
WEST NORFOLK (VC28): 27/06/2001, TF688187, Wicken North & Doublewood.

- Nysius ericae* (Schilling) (Lygaeidae)
WEST NORFOLK (VC28): 27/06/2001, TF688187, Wicken North & Doublewood.
- Nysius thymi* (Wolff) (Lygaeidae)
EAST NORFOLK (VC27): 01/07/2010, TG144299, Blickling: Itteringham, sand pit.
- Peritrechus lundii* (Gmelin) (Lygaeidae)
EAST NORFOLK (VC27): 30-Apr-16, TG139411, Sheringham Park.
- Peritrechus nubilus* (Fallén) (Lygaeidae)
EAST NORFOLK (VC27): 24/02/2016, TG4010, Acle.
- Plinthinus brevipennis* (Latreille) (Lygaeidae)
EAST NORFOLK (VC27): 18/06/1988, TG533104, North Beach Dunes, Great Yarmouth.
- Rhyparochromus pini* (Linnaeus) (Lygaeidae)
WEST NORFOLK (VC28): 25/05/2006, TF9716, Hoe Rough NNT Reserve.
- Scolopostethus grandis* Horváth (Lygaeidae)
EAST NORFOLK (VC27): 06-Mar-16, TG4009, Constable Doles.
- Berytinus clavipes* (Fabricius) (Berytidae)
WEST NORFOLK (VC28): 07/08/2014, TL7794, Cranwich Camp.
- Berytinus montivagus* (Meyer-Dür) (Berytidae)
WEST NORFOLK (VC28): 27/06/2001, TF688187, Wicken North.
- Berytinus signoreti* (Fieber) (Berytidae)
WEST NORFOLK (VC28): 27/06/2001, TF688187, Wicken North.
- Metatropis rufescens* (Herrich-Schaeffer) (Berytidae)
EAST NORFOLK (VC27): 18/09/2010, TG137415, Sheringham Park: Sheringham Wood.
- Parapiesma quadratum* (Fieber) (Piesmatidae)
EAST NORFOLK (VC27): 27-Jun-16, TG5008, Breydon Water.
- Piesma maculatum* (Laporte) (Piesmatidae)
EAST NORFOLK (VC27): 1944, TG3205, Wheatfen.
- Acalypta carinata* (Panzer) (Tingidae)
WEST NORFOLK (VC28): 01/01/1988, TF982122.
- Acalypta platycheila* (Fieber) (Tingidae)
EAST NORFOLK (VC27): 22/06/2007, TG37332353, Sutton: Broad: Compartment 41.
- Campylosteira verna* (Fallén) (Tingidae)
WEST NORFOLK (VC28): 01/01/1960, TL759882.
- Kalama tricornis* (Schrank) (Tingidae)
EAST NORFOLK (VC27): 06-Sep-15, TG248286, Felmingham cutting.
- Physatocheila dumetorum* (Herrich-Schaeffer) (Tingidae)
EAST NORFOLK (VC27): 06-Sep-15, TG248286, Felmingham cutting.
- Coranus subapterus* (De Geer) (Reduviidae)
EAST NORFOLK (VC27): 08/08/2015, TG248286, Felmingham cutting.
- Coranus woodroffei* P.V. Putshkov (Reduviidae)
EAST NORFOLK (VC27): 29-Sep-13, TG084372, Holt Lowes.
WEST NORFOLK (VC28): 05-Sep-15, TF861445, Burnham Overy Staithe.
- Nabis brevis* Scholtz (Nabidae)
WEST NORFOLK (VC28): 1997 - 1998, TF81, Castle Acre.
- Nabis pseudoferus* Remane (Nabidae)
EAST NORFOLK (VC27): 21/08/2006, TG2739, Trimingham, defended cliffs.
- Nabis rugosus* (Linnaeus) (Nabidae)
EAST NORFOLK (VC27): 21-May-15, TG4009, Constable Doles.
- Acompocoris alpinus* Reuter (Anthocoridae)
EAST NORFOLK (VC27): 28/06/1980, TG1807, University of East Anglia Grounds.
- Acompocoris pygmaeus* (Fallén) (Anthocoridae)
EAST NORFOLK (VC27): 07/09/1994, TG194074, University of East Anglia, Norwich.
- Anthocoris gallarumulmi* (De Geer) (Anthocoridae)
EAST NORFOLK (VC27): 24/07/1987, TM409924, Beccles, NW of.
- Anthocoris sarothamni* Douglas & Scott (Anthocoridae)
WEST NORFOLK (VC28): 27/06/2001, TF688187, Wicken North & Doublewood.

- Anthocoris simulans* Reuter (Anthocoridae)
EAST NORFOLK (VC27): 14/05/2010, TG128420, Sheringham Park: Bob's Pond.
- Dufouriellus ater* (Dufour) (Anthocoridae)
EAST NORFOLK (VC27): 24/06/2003, TG1940, Felbrigg: Great Wood.
- Orius laevigatus* (Fieber) (Anthocoridae)
EAST NORFOLK (VC27): 04-May-16, TG4111, Acle Bridge.
- Orius majusculus* (Reuter) (Anthocoridae)
EAST NORFOLK (VC27): 24/06/2003, TG1940, Felbrigg: Great Wood.
WEST NORFOLK (VC28): July 1976 - September 1976, TL98, Stanford practical training area.
- Orius vicinus* (Ribaut) (Anthocoridae)
EAST NORFOLK (VC27): 15/08/2003, TG1940, Felbrigg: Great Wood.
- Temnostethus gracilis* Horváth (Anthocoridae)
EAST NORFOLK (VC27): 24/06/2003, TG1940, Felbrigg: Great Wood.
- Xylocoris galactinus* (Fieber) (Anthocoridae)
EAST NORFOLK (VC27): 31-Oct-15, TG189108, Garden, New Costessey.
- Loricula exilis* (Fallén) (Microphysidae)
EAST NORFOLK (VC27): 01/01/1988, TG3306.
- Adelphocoris seticornis* (Fabricius) (Miridae)
EAST NORFOLK (VC27): 1960, TG3205, Wheatfen.
WEST NORFOLK (VC28): 01/01/1986, TF7100.
- Agnocoris reclairei* (Wagner) (Miridae)
EAST NORFOLK (VC27): 31/08/2014, TG409095, Acle: Constable Doles.
- Alloeotomus gothicus* (Fallén) (Miridae)
EAST NORFOLK (VC27): 02/08/1994, TG194074, University of East Anglia, Norwich.
- Amblytylus brevicollis* Fieber (Miridae)
WEST NORFOLK (VC28): 16/09/1997, TF790452, Brancaster.
- Amblytylus nasutus* (Kirschbaum) (Miridae)
EAST NORFOLK (VC27): 23/07/2003, TG1940, Felbrigg: Great Wood.
- Asciodema obsoleta* (Fieber) (Miridae)
EAST NORFOLK (VC27): 23/08/1994, TG189075, University of East Anglia Grounds.
- Atractotomus magnicornis* (Fallén) (Miridae)
EAST NORFOLK (VC27): 24/06/2003, TG1940, Felbrigg: Great Wood.
- Bothynotus pilosus* (Boheman) (Miridae)
WEST NORFOLK (VC28): 25/09/1960, TL9194, Thompson Water..
- Calocoris alpestris* (Meyer-Dür) (Miridae)
EAST NORFOLK (VC27): 12/06/1981, TG0839, Holt Hall.
- Capsodes gothicus* (Linnaeus) (Miridae)
EAST NORFOLK (VC27): 01/01/1983, TG4404.
- Closterotomus fulvomaculatus* (De Geer) (Miridae)
WEST NORFOLK (VC28): 09-Jun-16, TF934143, Honeypot Wood.
- Closterotomus trivialis* (A. Costa) (Miridae)
WEST NORFOLK (VC28): 13/06/2016, TF685427, Old Hunstanton.
- Deraeocoris flavilinea* (A. Costa) (Miridae)
EAST NORFOLK (VC27): 10-Jul-16, TG4425, Waxham.
- Deraeocoris scutellaris* (Fabricius) (Miridae)
WEST NORFOLK (VC28): 01/01/1976, TL89.
- Dichrooscytus gustavi* Josifov (Miridae)
EAST NORFOLK (VC27): 17-Jul-15, TG210063, Eaton.
- Dicyphus constrictus* (Boheman) (Miridae)
EAST NORFOLK (VC27): 22/08/1986, TG1412, Easton.
- Fieberocapsus flaveolus* (Reuter) (Miridae)
EAST NORFOLK (VC27): 28/06/1980, TG1807, University of East Anglia Grounds.
- Halticus apterus* (Linnaeus) (Miridae)
EAST NORFOLK (VC27): 1941, TG3205, Wheatfen.

- Lygocoris rugicollis* (Fallén) (Miridae)
EAST NORFOLK (VC27): 26/06/2013, TG320081, Brundall.
- Macrotylus paykullii* (Fallén) (Miridae)
EAST NORFOLK (VC27): 18/06/1988, TG533104, North Beach Dunes, Great Yarmouth.
- Macrotylus solitarius* (Meyer-Dür) (Miridae)
EAST NORFOLK (VC27): 22/07/1984, TM050798, Redgrave Fen, mainly along N edge.
- Mecomma ambulans* (Fallén) (Miridae)
EAST NORFOLK (VC27): 06/08/1988, TG3316, Bure Marshes NNR.
- Mecomma dispar* (Boheman) (Miridae)
EAST NORFOLK (VC27): 01/01/1989, TG3306.
WEST NORFOLK (VC28): 01/01/1983, TL9395.
- Megacoelum beckeri* (Fieber) (Miridae)
WEST NORFOLK (VC28): 18/08/2010, TL869853, Margin 2, Lodge Farm.
- Megacoelum infusum* (Herrich-Schaeffer) (Miridae)
EAST NORFOLK (VC27): 30-Sep-15, TG139411, Sheringham Park.
- Megaloceroea recticornis* (Geoffroy) (Miridae)
EAST NORFOLK (VC27): 08-Jul-16, TG4523, Horsey Corner.
- Megalocoleus molliculus* (Fallén) (Miridae)
EAST NORFOLK (VC27): 04/08/1985, TG044426, Glandford.
- Neolygus populi* (Leston) (Miridae)
EAST NORFOLK (VC27): 23/06/2013, TG324083, Brundall.
- Neolygus viridis* (Fallén) (Miridae)
EAST NORFOLK (VC27): 29/07/2015, TG409095, Acle: Constable Doles.
- Orthocephalus coriaceus* (Fabricius) (Miridae)
WEST NORFOLK (VC28): 27/06/2001, TF688187, Wicken North & Doublewood.
- Orthops kalmii* (Linnaeus) (Miridae)
EAST NORFOLK (VC27): 01/05/1983, TG379201, Snipe Marsh, Catfield.
- Orthotylus adenocarpi* (Perris) (Miridae)
EAST NORFOLK (VC27): 11/07/1986, TG370139, Pilson Green, S Walsham Broad.
WEST NORFOLK (VC28): 06-Jul-08, TL915885, East Wretham Heath.
- Orthotylus concolor* (Kirschbaum) (Miridae)
EAST NORFOLK (VC27): 18/08/1989, TG168235, Marsham Heath.
- Orthotylus flavinervis* (Kirschbaum) (Miridae)
EAST NORFOLK (VC27): 11/07/1986, TG339153, Cockshoot Broad.
- Orthotylus moncreaffi* (Douglas & Scott) (Miridae)
EAST NORFOLK (VC27): 23/09/2004, TG51880803, Breydon Water, saltmarsh behind ASDA store.
- Orthotylus nassatus* (Fabricius) (Miridae)
EAST NORFOLK (VC27): 18/08/1989, TG420199, Potter Heigham Church.
- Orthotylus ochrotrichus* Fieber (Miridae)
EAST NORFOLK (VC27): 23/07/2003, TG1940, Felbrigg: Great Wood.
- Pachytomella parallela* (Meyer-Dür) (Miridae)
WEST NORFOLK (VC28): 01/01/1983, TL9395.
- Phytocoris reuteri* Saunders (Miridae)
EAST NORFOLK (VC27): 28-Aug-16, TG4523, Horsey Corner.
- Phytocoris ulmi* (Linnaeus) (Miridae)
EAST NORFOLK (VC27): 01/05/1983, TG379201, Snipe Marsh, Catfield.
- Phytocoris varipes* Boheman (Miridae)
EAST NORFOLK (VC27): 19-Aug-16, TG4723, Horsey.
- Plesiodema pinetella* (Zetterstedt) (Miridae)
EAST NORFOLK (VC27): 22-Jul-13, TG251295, Springfields, Felmingham.
- Polymerus palustris* (Reuter) (Miridae)
WEST NORFOLK (VC28): 15/07/2003, TL821936, Lynford Meadows.
- Psallodema fieberi* (Fieber) (Miridae)
EAST NORFOLK (VC27): 28/06/1980, TG1807, University of East Anglia Grounds.

Psallus albicinctus (Kirschbaum) (Miridae)

EAST NORFOLK (VC27): 22/07/1984, TM050798, Redgrave Fen, mainly along N edge.

Psallus ambiguus (Fallén) (Miridae)

EAST NORFOLK (VC27): 1939, TG3205, Wheatfen.

Psallus assimilis Stichel (Miridae)

EAST NORFOLK (VC27): 24/06/2003, TG1940, Felbrigg: Great Wood.

Psallus confusus Rieger (Miridae)

EAST NORFOLK (VC27): 24/07/1987, TM409924, Beccles, NW of.

Psallus flavellus Stichel (Miridae)

EAST NORFOLK (VC27): 22/07/1984, TM050798, Redgrave Fen, mainly along N edge.

Psallus lepidus Fieber (Miridae)

EAST NORFOLK (VC27): 22/07/1984, TM050798, Redgrave Fen, mainly along N edge.

Psallus mollis (Mulsant & Rey) (Miridae)

EAST NORFOLK (VC27): 24/06/2003, TG1940, Felbrigg: Great Wood.

Pseudoloxops coccineus (Meyer-Dür) (Miridae)

EAST NORFOLK (VC27): 20-Aug-15, TG4523, Horsey Corner.

Salicarus roseri (Herrich-Schaeffer) (Miridae)

EAST NORFOLK (VC27): 11/07/1986, TG461136, Filby.

Trigonotylus psammaecolor Reuter (Miridae)

EAST NORFOLK (VC27): 23-Aug-84, TG534096, Great Yarmouth, coastal Norfolk.

Tupiocoris rhododendri (Dolling) (Miridae)

EAST NORFOLK (VC27): 12/06/1981, TG0839, Holt Hall.

Tytthus pubescens (Knight) (Miridae)

EAST NORFOLK (VC27): 01/01/1988, TG3316.

Tytthus pygmaeus (Zetterstedt) (Miridae)

EAST NORFOLK (VC27): 06/08/1988, TG3316, Bure Marshes NNR.

WEST NORFOLK (VC28): 02/08/2008, TF789067, Beachamwell.

In addition to the above records new to VC27 and VC28, Rob's dataset also contained four records new to Suffolk, as follows :-

Cymus melanocephalus Fieber (Lygaeidae)

SUFFOLK (VC26): 02/08/2008, TL855832, Thetford.

Cimex pipistrelli Jenyns (Cimicidae)

SUFFOLK (VC26): 12/05/1992, TL8384, near Thetford warren.

Megalocoleus tanaceti (Fallén) (Miridae)

SUFFOLK (VC25): 24/07/1987, TM426913, Beccles by-pass.

Myrmecoris gracilis (R.F. Sahlberg) (Miridae)

SUFFOLK (VC26): 12/07/2007, TL855832, Thetford.

**ADDITIONS TO RYAN'S COUNTY LISTS OF HEMIPTERA-HETEROPTERA
FROM THE LONDON NATURALIST**

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Introduction

The London Naturalist is the journal of the London Natural History Society, whose remit is the area of a circle 20 miles in radius centred on St Paul's Cathedral. This region includes Middlesex and parts of Surrey, Kent, Essex, Hertfordshire and Buckinghamshire. I have recently searched through the issues of this publication, dated 1950 to the present, and compiled a list of county records not included in Ryan (2014a & 2014b), which is given below.

The new county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014a, 2015, 2016a & 2016b). The new records come from just three articles: Groves (1964-1986), marked '[G1]' to '[G16]' (representing parts 1 to 16 of the paper); Chatfield (1994), marked '[C]'; and Kirby (2001), marked '[K]'. Those records marked '***' have previously been reported by Gray (2015) without details.

The additional records

PENTATOMIDAE

Eurydema dominulus (Scopoli): Middlesex (VC21) [G16]

Eysarcoris aeneus (Scopoli): Surrey (VC17) [G1]

LYGAEIDAE

Cymus melanocephalus Fieber: South Essex (VC18) [G2]

Nysius ericae (Schilling): Buckinghamshire (VC24) [G2]

Scolopostethus grandis Horváth: Middlesex (VC21) [G2]

TINGIDAE

Acalypta platycheila (Fieber): Surrey (VC17) [G16]

Agramma laetum (Fallén): Middlesex (VC21) [G3]

Campylosteira verna (Fallén): Middlesex (VC21) [G3]

ANTHOCORIDAE

Orius laevigatus (Fieber): Surrey (VC17) [G4]

Orius niger (Wolff): Hertfordshire (VC20) [G4]***

Orius vicinus (Ribaut): Middlesex (VC21) [K]

Temnostethus gracilis Horváth: Middlesex (VC21) [K]

CIMICIDAE

Cimex lectularius Linnaeus: Buckinghamshire (VC24) [G4]

MICROPHYSIDAE

Loricula coleoptrata (Fallén): West Kent (VC16) [G4]; Surrey (VC17) [G4]

MIRIDAE

Alloeotomus gothicus (Fallén): Middlesex (VC21) [G5]

Atractotomus magnicornis (Fallén): South Essex (VC18) [G6]

Atractotomus parvulus Reuter: Middlesex (VC21) [K]

Campylomma verbasci (Meyer-Dür): Buckinghamshire (VC24) [G6]

Chlamydatus pullus (Reuter): Hertfordshire (VC20) [G16]

MIRIDAE (CONTINUED)

- Dicyphus constrictus* (Boheman): Hertfordshire (VC20) [G6]***
Globiceps fulvicollis Jakovlev: Middlesex (VC21) [G6]
Macrolophus pygmaeus (Rambur): Hertfordshire (VC20) [G6]***; Middlesex (VC21) [G6]; South Essex (VC18) [G6]
Macrolophus rubi Woodroffe: Middlesex (VC21) [G6]
Orthocephalus coriaceus (Fabricius): Middlesex (VC21) [G6]
Orthocephalus saltator (Hahn): Middlesex (VC21) [G6]
Orthops campestris (Linnaeus): Surrey (VC17) [C]
Orthotylus concolor (Kirschbaum): Buckinghamshire (VC24) [G8]
Orthotylus ochrotrichus Fieber: Hertfordshire (VC20) [G7]***
Orthotylus prasinus (Fallén): Middlesex (VC21) [G7]; South Essex (VC18) [G7]
Phytocoris insignis Reuter: Buckinghamshire (VC24) [G10]
Pinalitus viscicola (Puton): Surrey (VC17) [G8]
Psallus assimilis Stichel: Hertfordshire (VC20) [G5]***
Psallus confusus Rieger: West Kent (VC16) [G5]
Psallus flavellus Stichel: Surrey (VC17) [G5]; Buckinghamshire (VC24) [G5]
Psallus wagneri Ossiannilsson: Middlesex (VC21) [G5]

CERATOCOMBIDAE

- Ceratocombus coleopratus* (Zetterstedt): Buckinghamshire (VC24) [G12]

SALDIDAE

- Chartoscirta elegantula* (Fallén): Surrey (VC17) [G12]
Saldula orthochila (Fieber): Hertfordshire (VC20) [G12]
Saldula pilosella (Thomson): South Essex (VC18) [G16]

VELIIDAE

- Velia saulii* Tamanini: Surrey (VC17) [G16]

CORIXIDAE

- Hesperocorixa moesta* (Fieber): Middlesex (VC21) [G14]
Sigara scotti (Douglas & Scott): Middlesex (VC21) [G14]

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***ENOPLOPS SCAPHA* (FABRICIUS) (HEMIPTERA: COREIDAE) DELETED
FROM THE LIST FOR SOUTH HAMPSHIRE (VC11)**

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Jonty Denton has recently written to me to point out that the record for *Enoplops scapha* (Fabricius) (Coreidae) in Ryan (2016) is based upon a misidentification and should be deleted from the list for South Hampshire (VC11).

Reference

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**CAPSUS WAGNERI (REMANE) (HEMIPTERA: MIRIDAE) NEW TO OXFORDSHIRE
AND COMMENTS ON ITS IDENTIFICATION**

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I did not think much of my first collecting visit to Long Meadow, Wootton, Oxfordshire on 25 July 2009, until that evening when I examined my catch. The dark flower bug which I had taken on a Larch, *Larix* spp. (Pinaceae), along the footpath to the meadow from the village, turned out to be the RDB3 *Anthocoris amplipollis* Horváth (Anthocoridae) (Kirby, 1992), a new species for me, and one which was recorded as new to the county in the same year (Campbell, 2010). There was also a specimen of the Notable B *Lasiosomus enervis* (Herrich-Schaeffer) (Lygaeidae), my first, which I had swept further along the footpath, as it passed through a small wooded area. Further examination of the material revealed three *Capsus* Fabricius (two males and one female) with slender antennae, which I had swept where the meadow, a limestone hillside, met the River Glyme (National Grid Reference SP443193). I hastily checked the keys of Southwood & Leston (1959) to see whether this was *Capsus wagneri* Remane, a species not previously reported from Oxfordshire, and another personal first. Alas the antennae did not agree with the measurement ratios required by the key, and I was therefore constrained to assign the specimens to the common *Capsus ater* (Linnaeus).

I came across the specimens again when reviewing my collection in the winter of 2013/14, and could clearly see that their antennae were different to the many *C. ater* alongside them, and decided to dissect the male genitalia. Although there were distinct differences between the dissected left claspers of the two forms, it was impossible to match them unambiguously to the figures given by Southwood and Leston. The two-dimensional profile views of the claspers vary greatly with only slight changes in orientation. Given that I had only two males of putative *C. wagneri*, I could not be certain that the observed differences were significant, and left the specimens assigned to *C. ater*.

In the summer of 2014 I sought more material to see if I could conclude the matter. Revisiting Wootton on 21 June, I obtained four more males; and took a further male of putative *C. wagneri* in New Marston Meadows, Oxford (SP518078) on 22 July. I also visited Cowleaze Wood in the Chiltern Hills (SU727954) on 23 June, where *C. ater* was common, and where *C. wagneri* should not be present, and obtained a fresh series of the former species. The left claspers of these showed the same, clear differences that I had previously observed, as shown in Figure 3. If one imagines the apex of the clasper to be the head of a bird, then that of *C. ater* has a long, curved beak and a short, black neck, whereas that of *C. wagneri* has a short, upturned beak and a long orange neck. However, although my series of specimens were clearly distinct in regard to the left claspers, my failure to match these against the text book figures meant that I could not be certain that I had *C. wagneri*, instead of another member of the genus.

Reference to Leston (1954) and Wagner & Weber (1964) did not clarify the matter, except that it appeared that the form of the vesicle appendage might be more distinctive than that of the left clasper. More material was taken from Wootton in 2016. A visit on 5 July produced five females and no males, but a second excursion on 28 July was more fruitful delivering four males and a female. A comparison of the appendages (Figure 5) with the figures given by Wagner & Weber confirmed that I had taken *C. wagneri*. These specimens had the same form of the left clasper as described above.

Figure 1 shows the male specimens from which the appendages were dissected, and Figure 2 shows females taken from the same location, Cowleaze Wood in the case of *C. ater*, and Wootton in the case of *C. wagneri*. It can be seen that the forms of the antennae are almost indistinguishable between the species in these particular specimens, illustrating the difficulties of reliable identification using this feature. The red legs of the specimens of *C. wagneri* suggest that these are of variety *rufescens* Remane.



FIGURE 1. Males of *Capsus wagneri* (left) and *Capsus ater* (right).



FIGURE 2. Females of *Capsus wagneri* (left) and *Capsus ater* (right).



FIGURE 3. Left claspers of *Capsus wagneri* (left) and *Capsus ater* (right).



FIGURE 4. Right claspers of *Capsus wagneri* (left) and *Capsus ater* (right).



FIGURE 5. Vesical appendages of *Capsus wagneri* (left) and *Capsus ater* (right).



FIGURE 6. The county distributions of *Capsus wagneri* (left) and *Capsus ater* (right) (Ryan, 2014a & 2014b).

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SPECIES ACCOUNTS FOR THE HEMIPTERA-HETEROPTERA REPORTED AS NEW TO THE BRITISH ISLES SINCE SOUTHWOOD & LESTON (1959): 1993 TO 2001

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Introduction

This is the fourth instalment of species accounts which expand upon the Addendum to Southwood & Leston (1959) (Ryan, 2012). The previous instalments (Ryan, 2015d, 2016b & 2016c) covered the species announced as new to the British Isles in the period 1959 to 1992, which is here extended by another nine years to 2001. As before, the species accounts are based upon details published in the national entomological literature up to the present time.

The numbering of the species accounts follows that of Ryan (2012), which places them within the taxonomic sequence of Southwood & Leston (1959). Details of identification are given, but figures from published articles are not reproduced. A full set of keys for the land bugs is provided by Nau (2012) and Kirby (2015). Images for the bugs may be found at the British Bugs website (www.britishbugs.org.uk) and elsewhere on the internet, such as Flickr (www.flickr.com). County distribution maps for the new species are given in Figure 1. References are not cited within the species accounts, in order to avoid cluttering the prose. The evidence base for the accounts is instead given in an annotated bibliography.

Species accounts

075C *Nysius senecionis* (Schilling) (Lygaeidae)

This seedbug was first found in Britain by P. Hodge on 20 September 2006, sweeping a clearing in Holman Wood, near Brede, East Sussex.

The insect has been recorded many times since, its known range extending west to Dorset and Gloucestershire, and north to Yorkshire. It is typically taken sweeping composites, such as ragwort and fleabane, in the months of June, July, August and September.

N. senecionis can be separated from the similar *Nysius graminicola* (Kolenati) by the length of the first segment of the hind tarsus and by the extent of the matt field of the metapleuron. In the former, the first segment is shorter than the next two together, including the claws (longer in the latter), and the matt field is larger. There have been no reports of confusion between these two species, so there is no basis for doubting the identity of earlier records of the latter.

130D *Lygaeus simulans* Deckert (Lygaeidae)

This species was first reported as British by S. Judd, based upon a specimen standing over the name *Lygaeus equestris* (Linnaeus), collected in June 1864 from Devizes, Wiltshire. The latter species was shown by Deckert to comprise two separate species, the former being new to science. The two bugs are rare vagrants to the British Isles. All prior records for *Lygaeus* Fabricius should be discounted, unless traced to an authenticated specimen.

100B *Emblethis denticollis* Horváth (Lygaeidae)

This groundbug was first found in the British Isles by N. A. Straw, sweeping along a ride in Alice Holt Forest, Hampshire on 15 October 1991.

Further records were made in dry situations, on sand or chalk, in June, July, August and September, adding the counties of Kent, Bedfordshire, Cambridgeshire and Sussex to its known distribution. Nymphs have been found in August and September. The last published record was in 1997.

The insect is distinguished from its congener, the rare *Emblethis griseus* (Wolff), by its short first segment of the hind tarsus. There have been no reports of confusion between these two species, so there is no basis for doubting the identity of old records of the latter.

213A *Buchananiella continua* (F.B. White) (Anthocoridae), The Royal Refuse Bug

This species was first found in Britain in Malaise traps operated by C. W. Plant in Buckingham Palace Garden, Middlesex in the late summer of 1995.

The animal is found in dead plant material, such as on compost heaps and the die-back portions of trees and shrubs, where it preys upon other invertebrates. It is now recorded from many counties in England and Wales, its range extending to Devon in the west and Yorkshire in the north. Adults have been taken in March, June, August, September, October and November.

The animal resembles *Cardiastethus fasciiventris* (Garbiglietti) but the two species can be separated under the microscope by comparing the grooves on the pronotum. Although specimens of the former have been found in a collection standing over the latter name, these are recent and there is therefore no reason to doubt the identity of old records of the latter species.

277A *Europiella artemisiae* (Becker) (Miridae)277B *Europiella decolor* (Uhler) (Miridae)

In 1999 W. R. Dolling reported that the name *Plagiognathus albipennis* (Fallén) was ambiguous, and had been applied to three separate species, which are now placed in the genus *Europiella* Reuter: *Europiella albipennis* (Fallén), *Europiella artemisiae* (Becker) and *Europiella decolor* (Uhler). Only the latter two species have been recorded in Britain.

E. decolor can be found on Sea Wormwood in coastal locations, and has been reported from Yorkshire, Sussex, Norfolk and Suffolk, in July. *E. artemisiae* is more generally distributed on Mugwort, and there are records from Yorkshire, Lancashire, Cheshire, Bedfordshire and Middlesex, with the recent addition of Hertfordshire, Berkshire, Buckinghamshire, Oxfordshire, Northamptonshire, Lincolnshire, Cambridgeshire, Norfolk, Nottinghamshire, Staffordshire, Suffolk, Hampshire and Warwickshire, in June, July, August and September.

Although *E. artemisiae* and *E. decolor* are variable in their appearance, the former are generally larger and darker and the latter smaller and paler. For a definite separation, the male genitalia should be examined. Given the confusion, all previous records for *P. albipennis* must be disregarded, unless traced to an authenticated specimen.

036A *Carpocoris purpureipennis* (De Geer) (Pentatomidae)036B *Carpocoris mediterraneus* Tamanini (Pentatomidae)

Records for the *Carpocoris pudicus* (Poda) of Southwood & Leston (1959) have long been regarded as probably referring to either of the above two species. Two British specimens of *C. purpureipennis* are known. One was found by M. Barclay in a collection, taken on 4 October 1995 by E. Baldwin at Winterbourne, Bristol (VC34) on nettle. The other was taken on a beach hut by A. R. Collins on 15 October 2005, Portland Bill, Dorset. A specimen of *C. mediterraneus* was found in the British collection of the Natural History Museum, labelled as being from Devonshire, without date. No authenticated British specimens of *C. pudicus* have yet been found.

The county record for *C. mediterraneus* was not published at the time of Ryan (2014a & 2014b), and there is therefore no distribution map shown in Figure 1 for this species.

219A *Loricula ruficeps* (Reuter) (Microphysidae)

The recording of this species in the British Isles has never been published, but I understand that it was discovered by P. Kirby in 1999 at Whiddon Park, near Chagford, South Devon (VC3). This record was not included in Ryan (2014a & 2014b), and Figure 1 does not therefore include a distribution map.

442A *Saldula melanoscela* (Fieber) (Saldidae)

This shorebug is known only from a single site in the British Isles, at the mouth of the River Wampool at Whitrigg Bridge near Kirkbride, Cumbria. It was first reported by S. M. Hewitt in 2001, based upon material taken on the firm, sandy mudflats at the site, on 18 July 2000. Subsequently, specimens have been found in collections standing over the name *Saldula c-album* (Fieber), all from the same area. These were taken by F. H. Day on 2 June 1928 and 24 April 1945, and by S. G. Ball on 27 June 1987. The species is similar to *S. c-album*, but is smaller with blackened femora and brightly-marked, distinctively-patterned forewings.

231A *Deraeocoris flavilinea* (A. Costa) (Miridae)

This capsid bug was first taken in Britain by D. J. P. Miller by beating elder, *Sambucus nigra*, at the Middlesex Filterbeds Nature Reserve, Lea Valley, London (Essex) on 13 July 1996.

Subsequent records have been from various species of tree and shrub, in many English counties, to Gloucestershire in the west and Yorkshire and Lancashire in the north, in June and July. Nymphs have been taken in May and June.

The animal might be confused with *Deraeocoris ruber* (Linnaeus) or *Deraeocoris olivaceus* (Fabricius). It is similar in size to *D. ruber*, but has dark and pale rings on the tibiae. *D. olivaceus* also has ringed tibiae, but is larger and the margin of the stink gland is dark, whereas this is pale in *D. flavilinea*.

Annotated bibliography

075C *Nysius senecionis* (Schilling) (Lygaeidae)

Hodge (1994). First British record. 20 September 1992, Holman Wood, near Brede, East Sussex, a male and female swept from a heathy woodland clearing.

Hodge & Porter (1997). Repeat of Hodge Sussex record, with more details: specimens taken by P. Hodge sweeping mixed vegetation in the clearing. D. Porter swept a female at the same site on 26 September 1992. The bug can be separated from other British *Nysius* by two characters: the shape of the buccula and the short first segment of the posterior tarsi.

Kirby (1997). 15 September 1996, sparse ruderal vegetation in a sand quarry, Sandy Heath, Bedfordshire.

Hodge (1997a). 8 August 1996, on flowers of ragwort on sandy soil, Hyde Common, Fordingbridge, South Hampshire. 15 August 1996, at two sites in North Hampshire on sandy ground. 30 August 1996, on sandy ground, Halling, Kent.

Dolling (1997). On heads of yarrow in 1996 at Heverfield quarries, East Yorkshire.

Denton (1997). On heads of ragwort in 1996 at Oakhanger, North Hampshire; rarely found on the ground. On Canadian goldenrod, Bittacy Hill, Middlesex and Brookwood, Surrey, on 12 September 1996.

Nau (1997). In a car park at RAF Chicksands, Bedfordshire on 8 August 1996. Elsewhere in Bedfordshire at various sites in August and September.

Alexander (1999). Swept from Sea Wormwood & Sea Aster, Brancaster Marsh, Norfolk, 2 September 1997. Under Sea Campion over sand/pebbles, Salthouse Marshes, Norfolk, 8 September 1997.

Jones (1999a). Adults and nymphs on Guernsey Fleabane on derelict land, Wandsworth, London (Surrey), 22 September 1998. Other records by general sweeping: Wandle Mouth, VC17, 18 June 1998; Deptford Creek, VC16, 23 September 1997; and Woodlands Farm, Shooters Hill, Woolwich, VC16, 18 June 1998.

Jones (2000). Chelsea Power Station, Middlesex, 8-16, August 2000.

Jones (2001). Middlesex and Essex records from derelict land in urban London, on Guernsey Fleabane and Oxford Ragwort in 1999: 22 June; 5, 8, 11, 17, 23 August; and 22 September.

Hodge (2003a). Swept off Common Fleabane in a meadow, Pagham Harbour LNR, West Sussex, 7 August 2002.

Dolling (2003a). *N. senecionis* can be separated from the similar *N. graminicola* by the length of the first segment of the hind tarsus and by the extent of the matt field of the metapleuron. In the former, the first segment is shorter than the next two together, including the claws (longer in the latter), and the matt field is larger.

Dolling (2003b). Beacon Lagoons Nature Reserve, East Yorkshire coast, August/September 2003.

Jones (2004). Battersea Park, Surrey, 28 July 2003.

Alexander (2005). Weedy fields, Alderton & Dumbleton, Gloucestershire, September 2004.

Campbell (2005). Field near Marcham, Watsonian Berkshire, July 2004.

Biggs & Langmaid (2006). Browndown Ranges, Hampshire, 9 October 2005.

Whitehead (2006). 23 July 2006, Little Comberton, Worcestershire. 8 August 2006, Evesham, Worcestershire.

Dickson (2007). Swept, Wallington, South Hampshire, 27 August 2006.

Widgery (2007). North Norfolk coast, September 2006/2007.

- Campbell (2008). Frilford, Watsonian Berkshire, 2004.
 Widgery (2008). First Gloucestershire record in 2003. Two more records in 2004, and six in 2006/2007.
 Salmon (2009). On ragwort, Brownsea Island, Poole Harbour, Dorset.
 Widgery (2010). On arable weeds, near Alderton, Gloucestershire, 31 July 2009.
 Ryan (2013). Sweeping disturbed arable land, near Goring, Oxfordshire, July/August 2006.
 Ryan (2015c). Records for East and West Gloucestershire.
 Gray (2015). Record for Hertfordshire.
 Ryan (2016a). Records for North and South Hampshire.
 Ryan (2016e). Records for North and South Lincolnshire.
 Ryan (2016f). Records for West Suffolk and Warwickshire.
 Foster (2016). Disturbed land adjacent to the River Don Navigation Canal, north of Doncaster, August 2005. The first inland site for Yorkshire. Five other Yorkshire sites known.

130D *Lygaeus simulans* Deckert (Lygaeidae)

- Judd (1996). This species was first reported as British by S. Judd, based upon a specimen standing over the name *Lygaeus equestris* (Linnaeus), collected in June 1864 from Devizes, Wiltshire. The latter species had recently been shown by Deckert to comprise two separate species, the former being new to science. The two species are rare vagrants to the British Isles.

100B *Emblethis denticollis* Horváth (Lygaeidae)

- Judd & Straw (1997). First British record, 15 October 1991, swept by N. A. Straw from the edge of a mown ride in Alice Holt Forest, North Hampshire. Adults and nymphs collected by S. Judd from a vegetated sandy bank separating a lane from an arable field near Wickhambreaux, Kent, 22 August 1993.
 Denton (1997). 14 August 1996, on disturbed heathland on The Slab, Oakhanger, North Hampshire. 17 August 1996, in a nearby horse paddock. Later, in September, many hundreds of nymphs and adults found under *Erodium*.
 Nau (1997). [Duplicate of Bedfordshire records, Kirby (1997).]
 Hodge (1997b). Near The Warren, Oakhanger, North Hampshire, 18 August 1996, swept from mixed herbage in a sandy area.
 Kirby (1997). Amongst dry grass on sandy ground beside a disused railway line, Bedford, Bedfordshire, 13 June 1996. Amongst sparse ruderal vegetation in a sand quarry, Sandy Heath, Bedfordshire, 15 September 1996. Amongst ruderal vegetation on calcareous soil, Willersmill Wildlife Park, Cambridgeshire, 2 September 1996.
 Hodge (1998). On a fence post, 9 July 1997, Hoyle, West Sussex.
 Ryan (2016a). Record for North Hampshire.

213A *Buchananiella continua* (F.B. White) (Anthocoridae)

- Kirby (1999). Found in Malaise traps operated by C. W. Plant in Buckingham Palace Garden, Middlesex between 3 August and 7 September 1995, and 7-22 September 1995. More of the bug was taken by P. Kirby on 21 August 1997 in an area used for composting, by beating dead branches onto a plastic tray. The animal resembles *Cardiastethus fasciventris* and *Orius* spp. but it is immediately distinctive under the microscope.
 Brooke & Nau (2003). In fen litter, Flitwick Moor, Bedfordshire, mid-September 2002.
 Kirby (2004). Insect has reached close to the southern outskirts of Cambridge.
 Hawkins (2005). Beaten from sycamore, Nonsuch Park, Cheam, Surrey.
 Nau (2006). Records from Bedfordshire: Flitwick Moor, 24 September 2002 (adults and nymphs in stacks of cut sedge), 18 October 2003 & 13 May 2004; Ampthill Park, 31 October 2002 (adults shaken from fallen mistletoe); and Cockayne Hatley, 9 August 2003 (at light). Record for Hertingfordbury, Hertfordshire, 27 November 2004 (beaten from ivy); and Nonsuch Park, Cheam, Surrey, 1 September 2004 (beaten from sycamore).
 Verdcourt (2005). Found on sacks of coarse garden waste in a garden, Maidenhead, Berkshire on 30 October 2004.

- Whitehead (2005a). In a wheelbarrow containing decaying apples in a garden, Evesham, Worcestershire on 7 September 2004. Records also for E. Yorkshire and Somerset (11 June 2005).
- Whitehead (2005b). Adults and nymphs shaken from branches of Leyland Cypress with die-back in a garden, Pershore, Worcestershire on 1 August 2005.
- Widgery (2006). In ivy, Lea Valley Country Park, Hertfordshire in March 2005.
- Aukema (2007). Adults and nymphs from Torbay, Torquay and Brixham (South Devon) in October 2006 on dead branches of sycamore and on *Crataegus* and *Clematis vitalba*.
- Dolling (2007). Records for Hull, East Yorkshire in 2001 and Elstronwick, East Yorkshire, October 2006, shaken from an abandoned wasp nest taken from a roadside hedge.
- Nau (2008). 28 September 2008, Swanton Novers Wood NNR, West Norfolk, beaten from dead leaves on a fallen bough.
- Widgery (2009). On dead twigs at Ashleworth, Gloucestershire, 15 August 2008; and at Woodmancote, Gloucestershire, 9 October 2008 in a bird feeder containing rotting peanuts.
- Flanagan (2009). From a compost heap in a residential area of Sheffield, Yorkshire.
- Flanagan (2010). From a garden compost heap, Sheffield, Yorkshire, August 2009.
- Alexander (2009). In a personal collection standing as *Cardiastethus fasciventris*, records for: Monmouthshire, 2005 & 2008; Belton Park, Lincolnshire, 2008; Dunham Park, Cheshire, 2008.
- Judd (2011). Record for Cheshire.
- Alexander (2013). Record for Warfield, Berkshire, 11 June 2012.
- Ryan (2014c). Beaten from Jasmine with extensive dead branches in a garden, Oxford, Oxfordshire, 17 October 2013. Found in leaf litter in the graveyard of St Giles Church, Oxford on 14 and 19 March 2014.
- Ryan (2015c). Records for East and West Gloucestershire.
- Ryan (2016e). Records for North and South Lincolnshire.
- Ryan (2016f). Records for West Suffolk and Warwickshire.
- Ryan (2016g). Record for South Hampshire.

277A *Europiella artemisiae* (Becker) (Miridae)

277B *Europiella decolor* (Uhler) (Miridae)

- Dolling (1999). The name *Plagiognathus albipennis* (Fallén) has been applied to three separate species, which are now placed in the genus *Europiella* Reuter: *Europiella albipennis* (Fallén), *Europiella artemisiae* (Becker) and *Europiella decolor* (Uhler). All three species are associated with *Artemisiae* spp. (Asteraceae). Only the latter two species have been recorded in Britain. Although *E. artemisiae* and *E. decolor* are variable in their appearance, the former are generally larger and darker and the latter smaller and paler. For a definite separation, the male genitalia should be examined. *E. decolor* can be found on Sea Wormwood in coastal locations, and has been reported from Yorkshire, West Sussex and East Suffolk. *E. artemisiae* is more generally distributed on Mugwort, and there are records from Yorkshire, Bedfordshire and Middlesex.
- Judd (2011). *E. artemisiae* recorded from Lancashire and Cheshire.
- Gray (2015). Record for *E. artemisiae* in Hertfordshire.
- Ryan (2015b). *E. artemisiae* recorded from Berkshire, Buckinghamshire, Oxfordshire and Northamptonshire, in June, July, August and September.
- Ryan (2016e). Record for *E. artemisiae* in South Lincolnshire, August 2009.
- Ryan (2016f). Records for *E. artemisiae* in Cambridgeshire, West Norfolk, Nottinghamshire, Staffordshire, West Suffolk and Warwickshire, for the months June, July, August and September. Record for *E. decolor* in West Norfolk, July 2012.
- Ryan (2016g). Record for *E. artemisiae* in South Hampshire, July 2001.

036A *Carpocoris purpureipennis* (De Geer) (Pentatomidae)

036B *Carpocoris mediterraneus* Tamanini (Pentatomidae)

- Barclay & Nau (2001). Specimen of *C. purpureipennis* found by M. Barclay in a collection, taken on 4 October 1995 by E. Baldwin at Winterbourne, Bristol (VC34) on nettle.
- Collins & Nau (2006). Specimen of *C. purpureipennis* taken on a beach hut by A. R. Collins on 15 October 2005, Portland Bill, Dorset.

Bantock (2014). Reports that Alex Ramsay found specimens of both *C. mediterraneus* and *C. purpureipennis* in the British collection of the Natural History Museum.

Ramsay (pers. comm., 1 April 2014). Alex Ramsay gave details of two specimens referred to by Bantock (2014). The *C. purpureipennis* specimen was that of E. Baldwin from Winterbourne, and the *C. mediterraneus* specimen was labelled as being from Devonshire, without date.

Ryan (2015a). There are no authenticated British specimens for the *Carpocoris pudicus* (Poda) of Southwood & Leston (1959), and records for the insect have long been regarded as probably referring to either *Carpocoris mediterraneus* (Tamanini) or *Carpocoris purpureipennis* (De Geer). Authenticated British records now exist for both of these species (Bantock, 2014), but not for *C. pudicus*.

219A *Loricula ruficeps* (Reuter) (Microphysidae)

Alexander (Undated). Found by Peter Kirby at Whiddon Park, Devon. [This record was not included in Ryan (2014a & 2014b).]

Kirby (pers. comm.). Found in Devon in 1999.

442A *Saldula melanoscela* (Fieber) (Saldidae)

Hewitt (2001). The first report of the species in Britain. Found on the firm, sandy mudflats at the mouth of the River Wampool at Whitrigg Bridge near Kirkbride, Cumbria, 18 July 2000. The species is similar to *Saldula c-album*, but is smaller with blackened femora and brightly-marked, distinctively patterned forewings. Subsequently, specimens found in the Carlisle Museum collections, standing over the name *Saldula c-album*, also found at Kirkbridge by F.H. Day, on 2 June 1928 and 24 April 1945. P. Kirby also found specimens amongst material collected by S. G. Ball at the same site on 27 June 1987, also standing over the name *Saldula c-album*.

231A *Deraeocoris flavilinea* (A. Costa) (Miridae)

Jones (1999b). Many swept and beaten from overhanging vegetation growing out of river wharfs at Deptford, London [probably Kent, but close to border with Surrey] on several occasions.

Hodge (1999). Beaten from aphid-infested sycamore foliage, Forty Hall, Enfield, Middlesex, 19 July 1998.

Miller (2001). New to Britain. Beating elder, *Sambucus nigra*, Middlesex Filter Beds Nature Reserve, Lea Valley, London (South Essex), 13 July 1996, by D. J. P. Miller. Adults and nymphs taken on sycamore in Middlesex on 4 June 1998, and adults again at the original site on 27 & 28 June 1998, also on sycamore. The adult is similar in size to *D. ruber*, but has dark and pale rings on the tibiae. *D. olivaceous* also has ringed tibiae, but is larger and the margin of the stink gland is dark, whereas it is pale in *D. flavilinea*.

Brooke (2002). Taken in June 2000 at Bletchley, Buckinghamshire and Toddington, Bedfordshire.

Nau & Brooke (2003). Forty Hall, on sycamore in 1999. Woolwich Common, Kent in 2000. [Repeat of Brooke (2002) records.] Two sites in Luton in 2000. Hounslow Heath, 3 June 2002, nymphs on diverse species of shrub in a hedgerow and on birch. Taken from diverse species of shrub and tree in hedgerows around Toddington, Bedfordshire, in mid-July 2002. Also bordering a green lane at Swanbourne, Buckinghamshire, at the same time.

Hodge (2003b). First record for Sussex. Beaten from hawthorn and blackthorn at Newhaven, East Sussex, 14 June 2003.

Hodge (2004). Repeat of Sussex record.

Dickson (2004). 14 July 2003, near Tilshead, Wiltshire and 3 July 2002, Swanwich Nature Reserve, Hampshire.

Kirby (2004). Abundant in Peterborough, Northamptonshire.

Hawkins (2005). Beaten from sycamore at Nonesuch Park, Cheam, London (Surrey) on 6 July 2004.

Jones (2005). Swept from an overgrown former car park, Chelsea Harbour, Middlesex, 18 June 2004.

Helden & Leather (2005). Taken from 11 different species of tree at Bracknell, Berkshire.

Campbell (2005). Near Cottisford, Oxfordshire, June 2004

Philp (2006). Beaten from young sycamore outside Maidstone, Kent, 12 June 2004.

Campbell (2008). Repeat of Oxfordshire record.

- Widgery (2008). First county record for Gloucestershire in 2007. Five sites for the county, all in VC33.
- Budworth (2008). Alfreton Park, Derbyshire, third week in July, 2008; and Treswell Wood, near Retford, Nottinghamshire, July 2008. Both first county records.
- Badmin (2010). Taken on 11 July 2009, Stodmarsh National Nature Reserve, East Kent.
- Nau, B. 2011. A very early season for spring mirids at Fancott Meadows NR, Bedfordshire. *Het News* **17/18**: 7.
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- Judd (2011). County records for Cheshire (VC58) and South Lancashire (VC59), post 1970.
- Flanagan (2014). July and August 2013, Lancaster (VC60). First record for Lancashire, 2008, near Crosby, South Lancashire (VC59). Undated record for Hulme, Manchester (VC59). Repeat of Dolling Yorkshire record, with a date of 4 July 2011.
- Gray (2015). Record for Hertfordshire.
- Ryan (2015c). Record for East Gloucestershire.
- Ryan (2015e). Reared from nymphs taken on hawthorn and field maple, confirming these as host plants.
- Ryan (2016a). Records for Isle of Wight and South Hampshire.
- Ryan (2016d). Record for North Hampshire.
- Ryan (2016e). Records for North and South Lincolnshire.
- Ryan (2016f). Records for Cambridgeshire, West Norfolk, Staffordshire, West Suffolk and Warwickshire.
- Ryan (2016h). Reared from nymphs taken on sycamore, hazel and hawthorn, confirming these as host plants.

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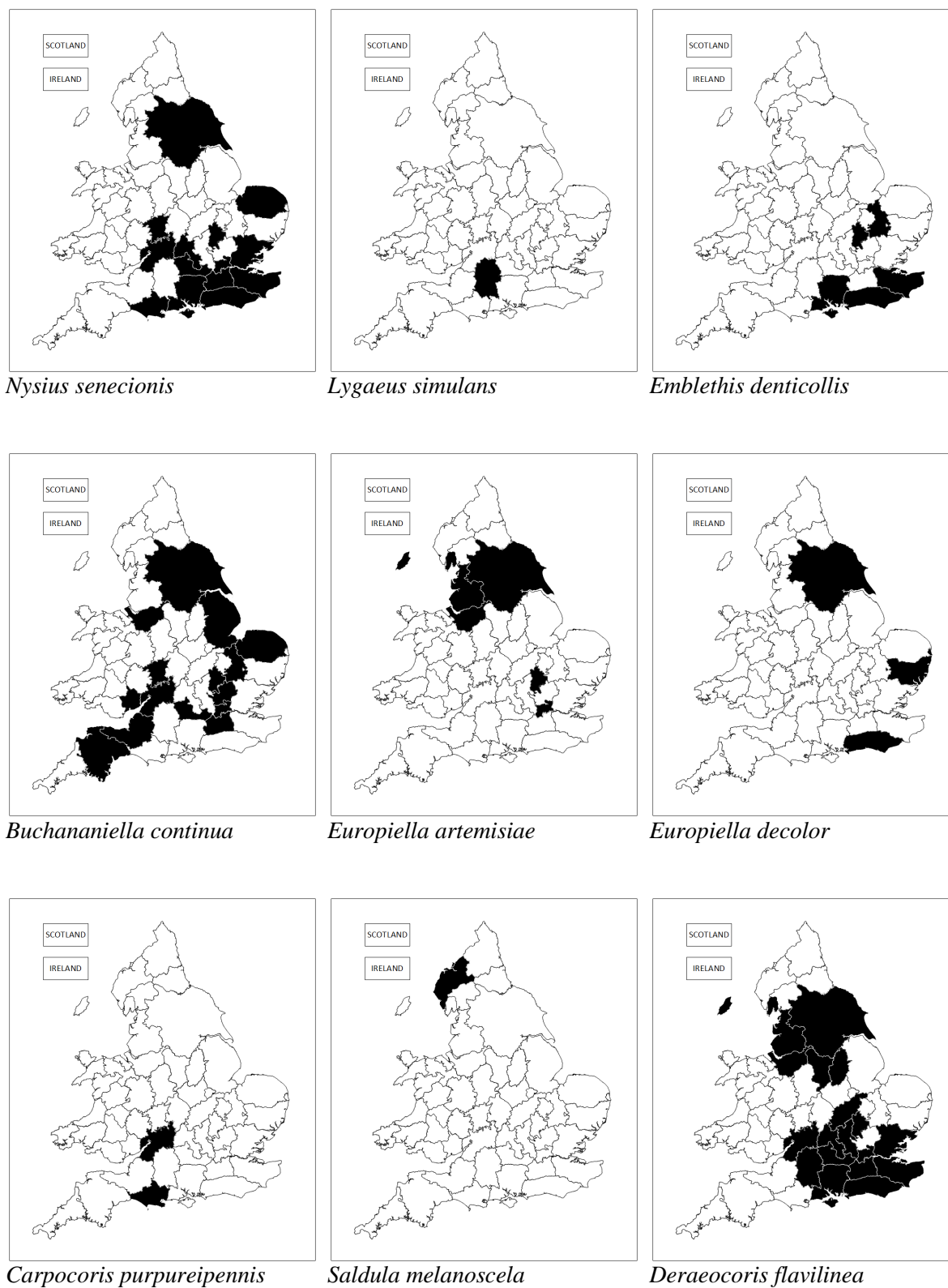


FIGURE 1. The county distributions of the described species (Ryan, 2014 a & 2014b).

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ENCOUNTERS WITH *ATRACOTOMUS PARVULUS* REUTER (HEMIPTERA: MIRIDAE) AND COMMENTS ON ITS IDENTIFICATION

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The addition of the above species to the British list by Woodroffe (1971), as *Atractotomus mirificus* Woodroffe, was not regarded as a 'species split' by Ryan (2014a & 2015a). Consequently, prior records of the similar *Atractotomus magnicornis* (Fallén) were allowed to stand, as they were not thought to be in doubt due to a confusion over identity. Woodroffe reported that the new insect was clearly distinct from *A. magnicornis*, and was associated with a different host plant, Scots Pine, *Pinus sylvestris* L. (Pinaceae). *A. magnicornis* is typically associated with Norway Spruce, *Picea abies* (L.) H. Karst. (Pinaceae). There have also been no published records of old specimens of *A. parvulus* being found in collections standing over the name *A. magnicornis*.

However, in my own collecting, the *Atractotomus* Fieber I had found on pine looked just like those on spruce, and I was not convinced that the identification criteria of the claw shape and length of second antennal segment differed in my series taken on the two plants. I had also taken specimens of the genus on larch, *Larix* spp. (Pinaceae), which also looked the same. Dissection of the male genitalia revealed only *A. magnicornis*, some of the specimens having been taken from pine. Clearly, host plant association is not a reliable guide to identity, and I had no evidence of ever having encountered *A. parvulus*.

In 2015, I decided to target pine in the hope of taking my first confirmed specimens of *A. parvulus*. Initially I found only *A. magnicornis*, but on 27 July in University Parks, Oxford (National Grid Reference SP516072) I took my first *A. parvulus*. There were no *A. magnicornis* mixed with the *A. parvulus*, and specimens of the former taken on 12 July proved to be my last of the season. Comparing my series of the two species side by side, they were clearly distinct, the most obvious difference being size. *A. parvulus*, as its name suggests, is smaller, particularly in respect of the females (Figures 1 & 2).

On 31 August, I took more of the animal in Hinksey Park, Oxford, Watsonian Berkshire (SP513048); and then on 2 August I took it in Vale Park, Aylesbury, Buckinghamshire (SP823138) and in Tring Cemetery, Hertfordshire (SP913109). The Buckinghamshire record is new to the county, and Hertfordshire has recently been added to the county distribution by Gray (2015) (Figure 3).

Some other interesting species were chanced upon in the course of this study. *Buchananiella continua* (F.B. White) (Anthocoridae) was taken from dead branches of Scots Pine at Hinksey Park; and *Alloeotomus gothicus* (Fallén) and *Pilophorus cinnamopterus* (Kirschbaum) were taken from Scots Pine at Vale Park, the latter being new to the county list for Buckinghamshire.



FIGURE 1. The males of *A. parvulus* (left) and *A. magnicornis* (right).



FIGURE 2. The females of *A. parvulus* (left) and *A. magnicornis* (right).

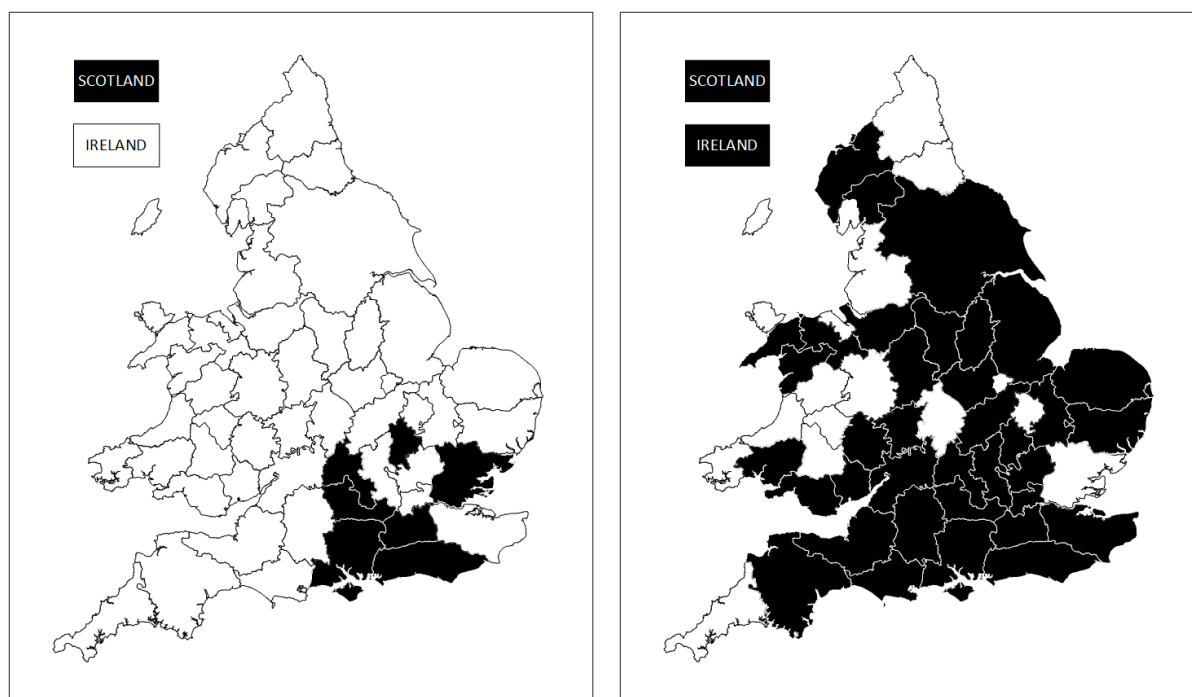


FIGURE 3. The county distributions of *A. parvulus* (left) and *A. magnicornis* (right) (Ryan, 2014a & 2014b).

I must also delete my record for *A. parvulus* from the list for Northamptonshire (Ryan, 2015b). The female specimen is clearly *A. magnicornis*. My draft for this article was endorsed, in bold, 'check identification' against the record, but this was not done. I apologise for this silly error.

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***PLACOCHILUS SELADONICUS* (FALLÉN) (HEMIPTERA: MIRIDAE) AND
ORSILLUS DEPRESSUS (MULSANT & REY) (HEMIPTERA: LYGAEIDAE)
NEW TO BUCKINGHAMSHIRE**

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I have recently been in communication with Roger Hawkins who, amongst other matters, asked about the status of *Placochilus seladonicus* in Oxfordshire, which he reported as new to the county in 1986 (Ryan, 2016a). This is a seldom-reported species, and Roger commented that he had not encountered the bug since. As a result of considering his query I realised that I had several records for *P. seladonicus*, including a new county record, and thought these should be published.

Since I first started collecting in Oxfordshire in 2006, the only site I had found for the bug was at Hartslock Nature Reserve (National Grid Reference SU616795), in the Chiltern Hills near Goring, Oxfordshire (Ryan, 2014c), just eight kilometres south from Roger's site at Woodhouse Farm (SU640871). However, on 14 July 2014 I found another site south-east of Oxford at Dry Sandford Pit Nature Reserve, Dry Sandford, Watsonian Berkshire (SU467994). In the following year, I found the bug on a limestone hillside near Stonesfield, Oxfordshire (SP389162) in the Cotswolds foothills on 8 July; and then on 16 July at a disused airfield at Worminghall (SP643100), just over the border in Buckinghamshire, a new county record. All records were made sweeping Field Scabious, *Knautia arvensis* (L.) Coult. (Dipsacaceae).

Roger also mentioned *Orsillus depressus*, which he discovered as new to Britain in 1987 (Ryan, 2016b), and a bug I had encountered several times recently, during my work in urban cemeteries (Ryan, 2015a & 2015b). I found the insect in my very first year of collecting in Oxfordshire, adding it to the county list from several sites in Oxford. However, there was a gap of several years before I found it again (Ryan, 2013), taking it close to my Oxford home in Wellington Square. My cemetery work recorded the bug at several new sites: Abingdon, Watsonian Berkshire (SU485976, 12 August); Aylesbury, Buckinghamshire (SP829135, 17 August), Royal Leamington Spa, Warwickshire (SP321642, 18 August); and Leighton Buzzard, Bedfordshire (SP929257, 26 August). Warwickshire has recently been added to the county distribution (Ryan, 2016c), but the record for Buckinghamshire is new to the county. All records were made beating Lawson Cypress, *Chamaecyparis lawsoniana* (Murr.) Porlatore (Cupressaceae).

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FIGURE 1. Females of *Placochilus seladonicus* (left) and *Orsillus depressus* (right).



FIGURE 2. The county distributions of *Placochilus seladonicus* (left) and *Orsillus depressus* (right) (Ryan, 2014a & 2014b).

**A SPECIAL INDEX FOR HET NEWS, NEWSLETTER OF THE UK HETEROPTERA
RECORDING SCHEMES (SECOND SERIES)**

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Introduction

The following special index was compiled from the eighteen issues of Het News (Second Series), numbered 1 to 16, 17/18 and 19/20, which appeared between spring 2003 and spring 2013. The index is 'special' in the sense that it deals only with the names of the bugs. No other aspects are indexed, and only British species are included. The nomenclature and ordering of species is the same as that used in Ryan (2014)

The format of the page numbering is the digital number of the issue, followed by the digital page number within the issue, separated by a hyphen. So, for example, page 12 of issue 7 is written 7-12. The index was generated automatically within Microsoft® Office Word 2007, using a concordance table which included the known synonyms for the species. All the newsletter issues were converted into a single Word document, divided into eighteen sections, one for each of the issues. The AutoMark and Insert Index options were then used to generate the index. Given this method of compilation, this special index is prone to omission due to the misspelling of species names in the newsletter issues. I would be grateful to hear from readers of any such omissions.

Portable document format (PDF) copies of the issues of the newsletter can be downloaded from the British Bugs website (<http://www.britishbugs.org.uk/HetNews.html>). I very much hope that this special index, in combination with that of the Heteroptera Study Group Newsletter (Ryan, 2017), will help to make the newsletters of the UK Heteroptera recording schemes more accessible to those interested in the British Hemiptera-Heteroptera.

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- Rhopalus subrufus* (Gmelin): 6-8; 9-15; 13-11; 14-12; 15-11; 17/18-26.
- Stictopleurus abutilon* (Rossi): 2-9; 2-10; 3-3; 4-3; 4-7; 6-8; 6-9; 6-10; 6-14; 6-17; 8-13; 9-15; 10-6; 10-17; 11-12; 11-14; 11-16; 13-10; 14-10; 15-11; 15-13; 16-13; 17/18-8; 19/20-12.
- Stictopleurus punctatonevrosus* (Goeze): 1-7; 1-8; 2-9; 3-4; 3-5; 4-7; 6-8; 6-10; 6-17; 8-18; 8-19; 9-2; 10-6; 10-17; 11-14; 11-16; 12-18; 13-11; 14-10; 14-12; 15-11; 15-13; 16-13; 19/20-12; 19/20-15.

PYRRHOCORIDAE

- Pyrrhocoris apterus* (Linnaeus): 9-6; 9-7; 10-1; 10-12; 11-15; 13-9; 15-12; 16-3.

STENOCEPHALIDAE

- Dicranocephalus agilis* (Scopoli): 3-4; 9-2; 9-4; 9-6; 9-7; 9-15; 12-21; 17/18-26.
- Dicranocephalus medius* (Mulsant & Rey): 3-5; 4-5; 11-16; 17/18-28.

LYGAEIDAE

- Acompus pallipes* (Herrich-Schaeffer): 17/18-26.
- Acompus rufipes* (Wolff): 6-2; 9-2; 17/18-21.
- Aphanus rolandri* (Linnaeus): 2-9; 4-8; 6-9; 6-14; 6-16; 6-17; 8-17; 8-18; 9-13; 10-16; 11-12; 11-16; 12-21; 14-10; 16-1; 16-10; 17/18-1; 17/18-19; 17/18-28; 19/20-10.
- Arocatus longiceps* Stål: 9-1; 9-8; 10-1; 10-8; 10-9; 10-13; 11-3; 12-1; 12-4; 12-5; 12-6; 12-20; 13-1; 13-7; 17/18-5; 17/18-27; 17/18-28; 19/20-1; 19/20-10; 19/20-11; 19/20-14; 19/20-15.
- Beosus maritimus* (Scopoli): 9-4.
- Chilacis typhae* (Perris): 17/18-26; 17/18-27.

LYGAEIDAE (CONTINUED)

- Cymus claviculus* (Fallén): 1-7; 2-7; 2-10; 5-7; 13-10; 17/18-26.
Cymus glandicolor Hahn: 17/18-26.
Cymus melanocephalus Fieber: 11-14; 17/18-26.
Drymus brunneus (R.F. Sahlberg): 17/18-26; 17/18-29.
Drymus latus Douglas & Scott: 1-9; 4-11; 10-17; 11-14; 16-13; 19/20-15.
Drymus pilicornis (Mulsant & Rey): 3-4; 4-11; 9-2; 16-13.
Drymus pilipes Fieber: 4-11.
Drymus pumilio Puton: 4-10; 9-4; 9-5; 9-6; 19/20-14.
Drymus ryeii Douglas & Scott: 6-2; 17/18-26.
Drymus sylvaticus (Fabricius): 2-7; 17/18-26.
Emblethis denticollis Horváth: 2-9; 3-3; 11-3; 12-20.
Emblethis griseus (Wolff): 3-4; 19/20-14.
Eremocoris fenestratus (Herrich-Schaeffer): 16-1; 16-3; 16-6; 19/20-10; 19/20-15.
Eremocoris plebejus (Fallén): 2-10; 9-2; 9-4; 9-6; 9-7; 17/18-29.
Eremocoris podagricus (Fabricius): 8-13; 11-14; 16-6; 19/20-14.
Gastrodes abietum Bergroth: 9-13; 11-14; 15-13.
Gastrodes grossipes (De Geer): 1-10; 9-13; 17/18-26.
Graptopeltus lynceus (Fabricius): 4-3; 5-7; 9-4; 9-6; 9-7; 17/18-8; 17/18-26.
Henestaris halophilus (Burmeister): 16-1; 16-10.
Henestaris laticeps (Curtis): 6-13; 9-4; 15-12; 16-10.
Heterogaster artemisiae Schilling: 2-9; 6-14; 9-4; 9-5; 9-6; 9-7; 11-14; 11-16.
Heterogaster urticae (Fabricius): 2-10; 6-2; 7-15; 9-3; 10-1; 10-11; 10-12; 10-16; 12-18; 12-19; 17/18-26.
Ischnocoris angustulus (Boheman): 6-2.
Ischnodemus sabuleti (Fallén): 6-2; 17/18-26.
Kleidocerys ericae (Horváth): 4-11; 17/18-26; 19/20-7.
Kleidocerys resedae (Panzer): 1-9; 6-17; 8-19; 9-12; 10-6; 12-18; 17/18-26; 17/18-29.
Lamproplax picea (Flor): 3-5; 4-5; 6-13; 10-15; 17/18-26.
Lasiosomus enervis (Herrich-Schaeffer): 3-4; 6-2; 11-14.
Lygaeus equestris (Linnaeus): 3-4; 9-2; 11-3.
Macrodema microptera (Curtis): 17/18-26.
Macroplax preyssleri (Fieber): 9-4; 9-5; 9-6; 11-16.
Megalonotus antennatus (Schilling): 3-5; 6-13; 8-18; 14-10; 15-1; 15-10; 17/18-8.
Megalonotus chiragra (Fabricius): 8-12; 17/18-26.
Megalonotus dilatatus (Herrich-Schaeffer): 6-2; 8-12; 9-4; 9-6; 11-16; 14-10; 17/18-26.
Megalonotus emarginatus (Rey): 2-9; 3-3; 3-4; 5-7; 11-14.
Megalonotus praetextatus (Herrich-Schaeffer): 3-5; 5-7; 9-4; 9-6; 11-12; 14-10; 17/18-8.
Megalonotus sabulicola (Thomson): 5-7; 8-19.
Metopoplax ditomoides (A. Costa): 3-4; 12-16.
Metopoplax fuscinervis Stål: 12-16.
Nysius cymoides (Spinola): 2-8.
Nysius ericae (Schilling): 1-10; 2-8; 6-12; 10-5; 16-12; 17/18-26; 19/20-16.
Nysius graminicola (Kolenati): 3-3; 3-6; 4-7; 4-11; 6-17; 8-18; 15-11.
Nysius helveticus (Herrich-Schaeffer): 2-5; 6-17; 8-5; 9-2.
Nysius huttoni F.B. White: 6-1; 6-12; 6-16; 11-1; 11-10; 12-20; 14-1; 14-8; 15-1; 15-16.
Nysius senecionis (Schilling): 2-8; 2-9; 4-11; 6-13; 6-14; 8-17; 8-18; 10-5; 10-6; 10-16; 11-14; 11-16; 15-11; 16-12.
Nysius thymi (Wolff): 3-6; 6-12; 17/18-26; 19/20-15.
Orsillus depressus (Mulsant & Rey): 2-8; 2-9; 3-3; 6-13; 8-17; 8-19; 15-13; 16-6; 16-12; 16-13; 17/18-27.
Pachybrachius fracticollis (Schilling): 6-9; 9-2; 17/18-26.
Pachybrachius luridus Hahn: 3-5; 9-5; 9-6.
Peritrechus convivus (Stål): 9-2.
Peritrechus geniculatus (Hahn): 5-1; 5-6; 6-2; 17/18-26.

LYGAEIDAE (CONTINUED)

- Peritrechus gracilicornis* Puton: 1-7; 8-18.
Peritrechus lundii (Gmelin): 5-7; 8-13; 14-10; 17/18-26.
Peritrechus nubilis (Fallén): 1-9; 1-10; 2-8; 6-13; 7-15; 8-18; 11-16.
Pionosomus varius (Wolff): 2-8; 6-17; 9-4; 9-5; 9-6; 9-7.
Plinthisus brevipennis (Latreille): 4-4; 6-2; 10-16; 15-12; 17/18-26.
Pterotmetus staphyliniformis (Schilling): 6-13.
Raglius alboacuminatus (Goeze): 3-4; 6-9; 8-5; 8-13; 9-6; 9-7; 12-2; 14-10.
Rhyparochromus pini (Linnaeus): 2-7; 9-4; 9-6; 11-16; 13-8; 14-10; 15-1.
Rhyparochromus vulgaris (Schilling): 3-3; 13-1; 13-8; 15-1; 17/18-5; 19/20-15.
Scolopostethus affinis (Schilling): 17/18-26; 17/18-29.
Scolopostethus decoratus (Hahn): 17/18-26.
Scolopostethus grandis Horváth: 6-2; 15-12; 17/18-26.
Scolopostethus pictus (Schilling): 2-8; 9-5; 9-6; 9-7; 11-16; 17/18-27.
Scolopostethus puberulus Horváth: 6-17.
Scolopostethus thomsoni Reuter: 17/18-26.
Sphragisticus nebulosus (Fallén): 10-16.
Stygnocoris fuliginus (Geoffroy): 17/18-26.
Stygnocoris rusticus (Fallén): 17/18-26.
Stygnocoris sabulosus (Schilling): 1-10; 2-6; 2-7; 17/18-26.
Taphropeltus contractus (Herrich-Schaeffer): 2-10; 6-2; 17/18-26.
Taphropeltus hamulatus (Thomson): 1-9; 11-14.
Trapezonotus arenarius (Linnaeus): 10-5; 10-6; 10-16; 17/18-26.
Trapezonotus desertus Seidenstücker: 11-14; 17/18-26.
Trapezonotus dispar Stål: 6-9; 8-13; 11-14; 11-16; 15-13.
Trapezonotus ullrichi (Fieber): 9-4; 9-5; 9-6.
Xanthochilus quadratus (Fabricius): 8-5; 9-7.

BERYTIDAE

- Berytinus clavipes* (Fabricius): 9-7; 17/18-29.
Berytinus crassipes (Herrich-Schaeffer): 2-7; 8-18; 11-14; 17/18-26.
Berytinus hirticornis (Brullé): 1-9; 4-5; 6-9; 8-12; 8-18; 17/18-29.
Berytinus minor (Herrich-Schaeffer): 2-7; 10-16; 17/18-26.
Berytinus montivagus (Meyer-Dür): 2-6; 2-7; 7-15; 13-11; 17/18-26; 19/20-7.
Berytinus signoreti (Fieber): 2-6; 2-7; 7-15; 9-15.
Gampsocoris punctipes (Germar): 2-7; 9-4; 17/18-26.
Metatropis rufescens (Herrich-Schaeffer): 8-16; 8-17; 16-13.
Neides tipularius (Linnaeus): 9-4; 10-13; 17/18-26.

PIESMATIDAE

- Parapiesma quadratum* (Fieber): 6-13; 11-14; 17/18-26.
Piesma maculatum (Laporte): 6-2; 17/18-26.

TINGIDAE

- Acalypta brunnea* (Germar): 9-2.
Acalypta carinata (Panzer): 2-6; 2-7; 4-10; 6-2.
Acalypta nigrina (Fallén): 6-2; 17/18-25; 17/18-28.
Acalypta parvula (Fallén): 2-7; 17/18-25.
Agramma laetum (Fallén): 2-6; 2-7; 15-1; 15-9; 17/18-21; 17/18-25.
Campylosteira verna (Fallén): 2-7.
Catoplatus fabricii (Stål): 2-6; 2-7; 3-5; 9-4; 9-6; 16-13; 17/18-8.
Corythucha ciliata (Say): 8-8; 12-4; 12-6; 17/18-27.
Derephysia foliacea (Fallén): 11-2; 17/18-25; 17/18-29.
Dictyla convergens (Herrich-Schaeffer): 7-15; 8-12; 10-17; 17/18-21; 17/18-25.
Dictyonota strichnocera Fieber: 17/18-25.

TINGIDAE (CONTINUED)

- Kalama tricornis* (Schrank): 2-7; 10-15; 10-17.
Lasiacantha capucina (Germar): 6-13.
Physatocheila dumetorum (Herrich-Schaeffer): 16-13; 17/18-25.
Physatocheila harwoodi China: 16-3.
Physatocheila smreczynskii China: 6-16; 8-15; 11-2; 17/18-28.
Stephanitis rhododendri Horváth: 1-10; 9-7; 16-8; 17/18-25.
Stephanitis takeyai Drake & Maa: 1-7; 3-3; 4-11; 6-11; 8-17; 10-2; 10-15; 19/20-15.
Tingis ampliata (Herrich-Schaeffer): 1-10; 17/18-25.
Tingis cardui (Linnaeus): 17/18-25.
Tingis reticulata Herrich-Schaeffer: 3-5.

REDUVIIDAE

- Coranus subapterus* (De Geer): 6-14; 10-5; 10-6; 15-13; 17/18-26.
Empicoris baerensprungi (Dohrn): 6-13; 11-15.
Empicoris culiciformis (De Geer): 9-7; 15-1; 15-10; 15-11; 17/18-26.
Empicoris vagabundus (Linnaeus): 17/18-26.
Oncocephalus pilicornis Reuter: 8-1; 8-9; 10-16.
Pygolampis bidentata (Goeze): 3-4; 8-9.
Reduvius personatus (Linnaeus): 4-5; 8-9; 9-2; 9-3; 9-7; 11-1; 11-11; 17/18-1; 17/18-20; 17/18-26.

NABIDAE

- Himacerus apterus* (Fabricius): 1-10; 7-15; 9-16; 10-1; 10-11; 17/18-7; 17/18-26.
Himacerus boops (Schjødte): 8-12; 11-14.
Himacerus major (A. Costa): 17/18-26.
Himacerus mirmicoides (O. Costa): 1-10; 9-16; 10-11.
Nabis brevis Scholtz: 9-2.
Nabis ericetorum Scholtz: 10-6; 11-16; 17/18-26.
Nabis fesus (Linnaeus): 9-3; 17/18-26.
Nabis flavomarginatus Scholtz: 17/18-26.
Nabis lineatus Dahlbom: 1-10; 15-13; 17/18-26.
Nabis pseudoferus Remane: 9-4; 9-6; 10-5; 16-3.
Nabis rugosus (Linnaeus): 5-4; 11-2; 17/18-26.
Prostemma guttula (Fabricius): 9-2; 9-4; 9-6; 9-7; 17/18-26; 19/20-14.

ANTHOCORIDAE

- Acompocoris alpinus* Reuter: 17/18-26.
Acompocoris pygmaeus (Fallén): 17/18-26.
Anthocoris amplicollis Horváth: 4-11; 15-1; 15-10; 19/20-6.
Anthocoris butleri Le Quesne: 9-2; 11-14; 15-13.
Anthocoris confusus Reuter: 17/18-7; 17/18-26.
Anthocoris gallarumulmi (De Geer): 6-2; 9-7; 17/18-26.
Anthocoris limbatus Fieber: 1-10; 2-9; 6-2; 11-14.
Anthocoris minki Dohrn: 6-17; 9-14; 10-16.
Anthocoris nemoralis (Fabricius): 17/18-26.
Anthocoris nemorum (Linnaeus): 6-16; 17/18-7; 17/18-26; 17/18-29.
Anthocoris sarothamni Douglas & Scott: 17/18-26; 17/18-28.
Anthocoris simulans Reuter: 9-14; 11-14; 19/20-6.
Anthocoris visci Douglas: 1-10; 7-13; 9-4; 9-6; 9-7; 17/18-21.
Brachysteles parvicornis (A. Costa): 8-12; 10-6; 19/20-11.
Buchananiella continua (F.B. White): 1-8; 4-3; 6-17; 8-12; 8-19; 9-12; 9-16; 11-15; 12-18; 13-11; 14-1; 14-8; 14-10; 15-1; 15-10; 17/18-26; 19/20-10; 19/20-14; 19/20-16.
Cardiastethus fasciiventris (Garbiglietti): 8-11; 11-14; 11-15.
Dufouriellus ater (Dufour): 9-5; 13-10; 14-11; 17/18-26.
Elatophilus nigricornis (Zetterstedt): 9-14; 11-14; 11-16; 13-11; 14-11; 17/18-26.

ANTHOCORIDAE (CONTINUED)

- Lycitoris campestris* (Fabricius): 4-10; 17/18-26.
Orius laevigatus (Fieber): 7-15; 8-16; 11-2.
Orius laticollis (Reuter): 1-10; 6-2; 8-18; 9-15; 11-14.
Orius majusculus (Reuter): 17/18-26.
Orius niger (Wolff): 6-2; 17/18-26.
Orius vicinus (Ribaut): 6-8; 11-2; 17/18-7; 17/18-26.
Temnostethus gracilis Horváth: 11-14; 17/18-26.
Temnostethus pusillus (Herrich-Schaeffer): 1-8; 6-17; 17/18-26.
Temnostethus tibialis Reuter: 2-8; 19/20-14.
Tetraphleps bicuspis (Herrich-Schaeffer): 6-2; 17/18-26.
Xylocoridea brevipennis Reuter: 8-16; 9-6; 9-7.
Xylocoris cursitans (Fallén): 1-7; 14-11; 17/18-26; 17/18-28.
Xylocoris formicetorum (Boheman): 9-2; 9-5; 9-6.
Xylocoris galactinus (Fieber): 4-10; 6-2; 9-7; 17/18-26.

CIMICIDAE

- Cimex columbarius* Jenyns: 3-4.
Cimex lectularius Linnaeus: 8-19; 10-13; 11-1; 11-9; 11-11; 16-4; 17/18-26; 19/20-15.
Cimex pipistrelli Jenyns: 2-9; 3-4; 9-4.
Oeciacus hirundinis (Lamarck): 1-10; 6-2.

MICROPHYSIDAE

- Loricula coleoptrata* (Fallén): 6-17; 8-12; 9-2; 10-17.
Loricula distinguenda (Reuter): 1-9.
Loricula elegantula (Baerensprung): 7-15; 17/18-25.
Loricula inconspicua (Douglas & Scott): 6-2; 6-13.
Loricula pselaphiformis Curtis: 6-16; 7-15; 17/18-25.

MIRIDAE

- Acetropis gimmerthalii* (Flor): 3-3; 11-13.
Adelphocoris lineolatus (Goeze): 17/18-25.
Adelphocoris seticornis (Fabricius): 2-8; 2-9; 9-5; 9-6; 13-6.
Adelphocoris ticinensis (Meyer-Dür): 3-6.
Agnocoris reclairei (Wagner): 1-10; 13-10; 14-10; 16-3; 19/20-16.
Alloeotomus gothicus (Fallén): 6-13; 11-13; 17/18-25.
Amblytylus brevicollis Fieber: 4-3; 9-2; 9-5; 9-6; 9-7; 11-13; 17/18-26.
Amblytylus delicatus (Perris): 2-9; 2-10; 6-9; 8-5; 19/20-14.
Amblytylus nasutus (Kirschbaum): 7-15; 8-5; 17/18-7.
Apolygus lucorum (Meyer-Dür): 17/18-25.
Apolygus spinolae (Meyer-Dür): 1-10; 17/18-25.
Asciodema obsoleta (Fieber): 11-13; 17/18-26.
Atractotomus magnicornis (Fallén): 17/18-26.
Atractotomus mali (Meyer-Dür): 1-10; 17/18-7; 17/18-26.
Atractotomus parvulus Reuter: 11-13.
Blepharidopterus angulatus (Fallén): 1-10; 17/18-26.
Blepharidopterus diaphanus (Kirschbaum): 17/18-26.
Bothynotus pilosus (Boheman): 9-2; 17/18-29.
Brachyarthrurum limitatum Fieber: 3-3; 11-13.
Brachynotocoris puncticornis Reuter: 3-3; 8-1; 8-9; 9-9; 9-14; 10-16; 11-14; 11-15; 13-10; 14-1; 14-7; 15-12; 19/20-6; 19/20-14.
Bryocoris pteridis (Fallén): 11-13; 17/18-25.
Calocoris alpestris (Meyer-Dür): 1-7; 4-10; 11-13; 14-10; 17/18-25.
Calocoris roseomaculatus (De Geer): 2-7; 11-12; 15-12; 17/18-25.
Camptozygum aequale (Villers): 9-7; 17/18-25.

MIRIDAE (CONTINUED)

- Campylomma annulicorne* (Signoret): 8-13; 11-13; 11-16.
Campyloneura virgula (Herrich-Schaeffer): 17/18-25.
Capsodes flavomarginatus (Donovan): 6-2.
Capsodes gothicus (Linnaeus): 3-4; 9-2; 13-11; 14-11.
Capsodes sulcatus (Fieber): 3-5; 6-13; 17/18-25; 17/18-29.
Capsus ater (Linnaeus): 17/18-7; 17/18-25.
Capsus wagneri (Remane): 13-11; 14-10; 17/18-28.
Charagochilus gyllenhalii (Fallén): 14-12; 17/18-25; 17/18-29.
Chlamydatius evanescens (Boheman): 1-8; 4-9; 4-11; 6-17; 7-13; 8-19; 9-4; 9-5; 9-6; 9-7; 14-1; 14-7; 17/18-26; 19/20-9; 19/20-14.
Chlamydatius pulicarius (Fallén): 9-4; 9-6; 9-7; 17/18-26.
Chlamydatius pullus (Reuter): 4-11; 16-13; 17/18-19; 17/18-26.
Chlamydatius saltitans (Fallén): 4-11; 6-17.
Closterotomus fulvomaculatus (De Geer): 17/18-25.
Closterotomus norwegicus (Gmelin): 17/18-7.
Closterotomus trivialis (A. Costa): 3-3; 15-1; 15-3; 16-1; 16-9; 19/20-9; 19/20-12; 19/20-16.
Compsidolon salicellum (Herrich-Schaeffer): 17/18-26.
Conostethus brevis Reuter: 9-7.
Conostethus griseus Douglas & Scott: 17/18-26.
Conostethus roseus (Fallén): 3-3; 4-5; 4-10; 9-16; 14-12; 17/18-26.
Conostethus venustus (Fieber): 3-3; 8-19; 15-1; 16-13; 17/18-1; 17/18-18; 17/18-19; 17/18-22; 17/18-27; 19/20-9; 19/20-14; 19/20-15.
Cyllecoris histrionius (Linnaeus): 1-10; 17/18-7; 17/18-26.
Cyrtorhinus caricis (Fallén): 17/18-26; 19/20-8.
Deraeocoris flavilinea (A. Costa): 2-2; 2-10; 3-3; 3-6; 4-3; 4-11; 6-14; 8-17; 8-19; 11-13; 11-16; 12-18; 12-19; 17/18-7; 17/18-22; 17/18-25; 17/18-28.
Deraeocoris lutescens (Schilling): 17/18-7; 17/18-25; 17/18-27.
Deraeocoris olivaceus (Fabricius): 1-8; 3-6; 14-10; 17/18-7; 19/20-16.
Deraeocoris ruber (Linnaeus): 1-10; 2-7; 17/18-25.
Deraeocoris scutellaris (Fabricius): 1-9; 2-9; 6-17; 11-15; 15-12; 19/20-16.
Dichroscytus gustavi Josifov: 3-3; 8-19; 11-13; 16-12.
Dichroscytus rufipennis (Fallén): 17/18-25.
Dicyphus annulatus (Wolff): 11-13; 17/18-25.
Dicyphus constrictus (Boheman): 1-7; 3-4; 4-10; 11-13; 17/18-25.
Dicyphus epilobii Reuter: 17/18-7; 17/18-25.
Dicyphus errans (Wolff): 6-8; 17/18-25; 19/20-11.
Dicyphus escalerae Lindberg: 8-17; 13-1; 13-4; 13-7; 13-8; 15-1; 15-10; 16-12; 17/18-29.
Dicyphus globulifer (Fallén): 17/18-25.
Dicyphus pallicornis (Fieber): 17/18-25.
Dicyphus pallidus (Herrich-Schaeffer): 15-1; 16-1; 16-9; 17/18-28; 19/20-15.
Dicyphus stachydis J. Sahlberg: 7-14; 16-9; 17/18-7; 17/18-25.
Dryophilocoris flavoquadrinaculatus (De Geer): 6-2.
Europiella artemisiae (Becker): 2-9; 10-16; 17/18-26.
Globiceps fulvicollis Jakovlev: 1-10; 9-4; 9-6; 10-17; 12-21; 14-11; 17/18-26.
Globiceps juniperi Reuter: 9-5.
Grypocoris stysi (Wagner): 17/18-25.
Hadrodemus m-flavum (Goeze): 3-4; 9-2; 9-3.
Hallodapus montandoni Reuter: 2-6; 2-7; 14-1; 14-8; 16-12.
Hallodapus rufescens (Burmeister): 6-2; 9-2; 11-13.
Halticus apterus (Linnaeus): 9-7; 14-5.
Halticus luteicollis (Panzer): 9-7; 14-5; 19/20-11.
Halticus macrocephalus Fieber: 4-9; 6-13; 16-3.
Halticus saltator (Geoffroy): 3-4; 14-1; 14-5; 17/18-26.
Harpocera thoracica (Fallén): 1-10; 17/18-22; 17/18-26.

MIRIDAE (CONTINUED)

- Heterocordylus genistae* (Scopoli): 6-16; 17/18-26; 19/20-15.
Heterocordylus tibialis (Hahn): 1-9; 17/18-26.
Heterotoma planicornis (Pallas): 17/18-26; 17/18-27.
Hoplomachus thunbergii (Fallén): 11-16.
Hypseloecus visci (Puton): 4-2; 4-5; 5-5; 7-13; 8-18; 11-16; 17/18-28.
Leptopterna dolabrata (Linnaeus): 17/18-7; 17/18-25; 19/20-8.
Leptopterna ferrugata (Fallén): 17/18-25.
Liocoris tripustulatus (Fabricius): 17/18-25.
Lopus decolor (Fallén): 17/18-26.
Lygocoris pabulinus (Linnaeus): 17/18-7; 17/18-25.
Lygocoris rugicollis (Fallén): 14-5; 17/18-25.
Lygus maritimus Wagner: 11-13; 17/18-25.
Lygus pratensis (Linnaeus): 4-3; 4-7; 4-9; 4-10; 4-11; 8-19; 9-13; 9-14; 10-6; 10-7; 10-16; 11-16; 15-13.
Lygus rugulipennis Poppius: 4-10; 6-16; 8-17; 17/18-25.
Lygus wagneri Remane: 1-7; 4-10; 9-14; 10-6; 10-7; 13-9; 15-1; 15-10; 16-3; 16-4.
Macrolophus pygmaeus (Rambur): 6-8; 10-15; 13-4; 13-5; 15-10; 17/18-16; 17/18-18; 17/18-25.
Macrolophus rubi Woodroffe: 11-13; 13-4; 17/18-18; 19/20-14.
Macrotylus horvathi (Reuter): 8-9; 10-16; 14-1; 14-7; 15-12; 17/18-28.
Macrotylus paykullii (Fallén): 17/18-26.
Macrotylus solitarius (Meyer-Dür): 7-14; 8-9; 11-16; 15-13.
Malacocoris chlorizans (Panzer): 11-13; 17/18-26.
Mecomma ambulans (Fallén): 17/18-26.
Mecomma dispar (Boheman): 6-13; 8-18; 11-13; 17/18-26.
Megacoelum beckeri (Fieber): 4-11; 8-5; 9-2; 11-13; 19/20-15.
Megacoelum infusum (Herrich-Schaeffer): 7-15; 17/18-25.
Megaloceroea recticornis (Geoffroy): 17/18-25; 19/20-7; 19/20-15.
Megalocoleus molliculus (Fallén): 6-2; 10-16; 13-11; 14-11; 17/18-26.
Megalocoleus tanaceti (Fallén): 9-7; 11-13.
Miridius quadrivirgatus (A. Costa): 3-5; 3-6; 8-18; 9-7; 11-12; 11-16; 14-11; 15-13; 19/20-16.
Miris striatus (Linnaeus): 16-3; 17/18-7; 17/18-25.
Monalocoris filicis (Linnaeus): 17/18-25.
Monosynamma bohemani (Fallén): 1-8.
Monosynamma sabulicola (Wagner): 1-8; 4-3; 9-4; 9-6; 11-13; 17/18-26.
Myrmecoris gracilis (R.F. Sahlberg): 11-13; 16-3; 17/18-29; 19/20-9.
Neolygus populi (Leston): 11-13; 17/18-22; 17/18-25.
Neolygus viridis (Fallén): 11-13; 17/18-7; 17/18-25.
Notostira elongata (Geoffroy): 17/18-25.
Notostira erratica (Linnaeus): 6-2.
Oncotylus viridiflavus (Goeze): 1-10; 6-13; 11-13; 11-16; 13-11; 14-11; 14-12; 15-13; 17/18-26.
Orthocephalus coriaceus (Fabricius): 10-16; 17/18-26.
Orthocephalus saltator (Hahn): 16-13; 17/18-26.
Orthonotus rufifrons (Fallén): 6-2; 14-5.
Orthops basalis (A. Costa): 8-7.
Orthops campestris (Linnaeus): 8-7; 17/18-25.
Orthops kalmii (Linnaeus): 17/18-25.
Orthotylus adenocarpus (Perris): 6-2; 9-9; 11-13.
Orthotylus bilineatus (Fallén): 11-13; 16-12; 17/18-26.
Orthotylus caprai Wagner: 10-1; 10-11; 11-13; 12-16; 12-21; 17/18-28.
Orthotylus concolor (Kirschbaum): 6-2; 8-12; 9-7.
Orthotylus ericetorum (Fallén): 17/18-26.
Orthotylus flavinervis (Kirschbaum): 6-2; 17/18-26.
Orthotylus flavosparsus (C.R. Sahlberg): 10-11; 11-13; 17/18-26.
Orthotylus fuscescens (Kirschbaum): 4-11; 9-9.

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- Orthotylus junipericola* Linnavuori: 10-11.
Orthotylus marginalis Reuter: 14-5; 17/18-26.
Orthotylus moncreaffi (Douglas & Scott): 10-11; 15-13; 16-9.
Orthotylus nassatus (Fabricius): 6-2; 10-11; 17/18-26; 19/20-6.
Orthotylus ochrotrichus Fieber: 10-11; 17/18-26.
Orthotylus prasinus (Fallén): 10-11; 19/20-7.
Orthotylus rubidus (Puton): 8-15; 10-5; 10-6; 10-11; 15-13; 16-1; 16-9.
Orthotylus tenellus (Fallén): 11-13; 17/18-7; 17/18-26; 19/20-6.
Orthotylus virens (Fallén): 2-9; 16-3.
Orthotylus virescens (Douglas & Scott): 17/18-26.
Orthotylus viridinervis (Kirschbaum): 6-2; 10-11; 11-13; 17/18-26.
Pachytomella parallela (Meyer-Dür): 6-2; 6-17; 19/20-7; 19/20-15.
Pantilius tunicatus (Fabricius): 10-1; 10-10; 17/18-25.
Phoenicocoris obscurellus (Fallén): 9-7; 17/18-26.
Phylus coryli (Linnaeus): 17/18-26.
Phylus melanocephalus (Linnaeus): 17/18-26.
Phytocoris dimidiatus Kirschbaum: 11-13; 12-14; 17/18-25.
Phytocoris insignis Reuter: 3-6.
Phytocoris longipennis Flor: 12-15; 17/18-25.
Phytocoris pini Kirschbaum: 9-7; 11-16; 12-15; 17/18-25.
Phytocoris populi (Linnaeus): 12-15; 17/18-25; 19/20-6.
Phytocoris reuteri Saunders: 10-16; 12-14; 17/18-25.
Phytocoris tiliae (Fabricius): 12-15; 17/18-25; 19/20-6.
Phytocoris ulmi (Linnaeus): 17/18-25.
Phytocoris varipes Boheman: 2-7; 17/18-25.
Pilophorus cinnamopterus (Kirschbaum): 9-7; 11-13; 13-11; 14-10; 15-13; 16-1; 16-9; 17/18-26.
Pilophorus clavatus (Linnaeus): 6-13; 8-18; 9-7; 15-13; 17/18-26.
Pilophorus perplexus Douglas & Scott: 6-13; 9-7; 17/18-22; 17/18-26; 17/18-29.
Pinalitus atomarius (Meyer-Dür): 3-4; 6-2.
Pinalitus cervinus (Herrich-Schaeffer): 4-10; 17/18-25; 19/20-6.
Pinalitus rubricatus (Fallén): 6-2; 9-7; 17/18-25.
Pinalitus viscicola (Puton): 1-10; 7-13; 9-5.
Pithanus maerkelii (Herrich-Schaeffer): 2-6; 2-7; 4-10; 9-3; 17/18-7; 17/18-25; 19/20-8.
Placochilus seladonicus (Fallén): 2-8; 11-13; 15-12; 17/18-8; 19/20-11.
Plagiognathus arbustorum (Fabricius): 1-10; 17/18-7; 17/18-26.
Plagiognathus chrysanthemi (Wolff): 2-7; 17/18-26.
Platycranus bicolor (Douglas & Scott): 8-9; 17/18-26.
Plesiodema pinetella (Zetterstedt): 9-2; 11-13; 13-1; 13-8; 13-9; 17/18-26.
Polymerus nigrita (Fallén): 17/18-25.
Polymerus palustris (Reuter): 11-13; 17/18-25.
Polymerus unifasciatus (Fabricius): 17/18-25.
Polymerus vulneratus (Panzer): 4-9; 16-3.
Psallodema fieberi (Fieber): 6-2; 7-15; 8-12; 10-17; 13-10; 14-12.
Psallus albicinctus (Kirschbaum): 1-9; 8-18; 9-2; 11-13.
Psallus ambiguus (Fallén): 6-2; 17/18-7; 17/18-26.
Psallus assimilis Stichel: 3-3.
Psallus betuleti (Fallén): 9-14; 10-16; 17/18-26.
Psallus confusus Rieger: 17/18-26.
Psallus falleni Reuter: 11-14; 17/18-26.
Psallus flavellus Stichel: 11-14; 17/18-26.
Psallus haematodes (Gmelin): 17/18-26.
Psallus lepidus Fieber: 17/18-26; 19/20-6.
Psallus mollis (Mulsant & Rey): 6-2; 7-15; 11-13; 15-12; 16-3; 17/18-26.
Psallus montanus Josifov: 9-14; 10-16; 13-10; 15-1; 15-10; 15-12; 17/18-21.

MIRIDAE (CONTINUED)

- Psallus perrisi* (Mulsant & Rey): 17/18-26.
Psallus pseudoplatani Reichling: 1-9; 3-3; 4-11.
Psallus quercus (Kirschbaum): 6-2; 9-7; 17/18-26.
Psallus salicis (Kirschbaum): 17/18-26.
Psallus variabilis (Fallén): 6-2; 9-7; 17/18-26.
Psallus varians (Herrich-Schaeffer): 17/18-26.
Psallus wagneri Ossiannilsson: 6-2; 9-7; 11-13; 16-3; 17/18-26.
Pseudoloxops coccineus (Meyer-Dür): 9-7; 17/18-26; 19/20-6.
Reuteria marqueti Puton: 3-3; 9-1; 9-9; 11-15; 19/20-14.
Rhabdomiris striatellus (Fabricius): 1-10; 17/18-25.
Salicarus roseri (Herrich-Schaeffer): 11-14; 11-16; 16-13; 17/18-26.
Stenodema calcarata (Fallén): 15-1; 15-10; 17/18-25.
Stenodema holsata (Fabricius): 9-2; 17/18-25; 19/20-15.
Stenodema laevigata (Linnaeus): 2-7; 17/18-25.
Stenodema trispinosa Reuter: 7-15; 10-6; 15-13; 17/18-28.
Stenotus binotatus (Fabricius): 17/18-25.
Sthenarus rotermundi (Scholtz): 4-11; 17/18-26.
Strongylocoris leucocephalus (Linnaeus): 2-7; 9-7.
Strongylocoris luridus (Fallén): 3-5; 6-9; 9-4; 9-6; 12-21; 17/18-28.
Systellonotus triguttatus (Linnaeus): 3-5; 9-4; 9-6; 9-7; 17/18-26; 19/20-9.
Teratocoris antennatus (Boheman): 11-13; 13-11; 14-11; 17/18-25.
Teratocoris caricis Kirkaldy: 2-10; 9-5; 9-6.
Teratocoris saundersi Douglas & Scott: 11-13; 16-2; 17/18-25.
Teratocoris viridis Douglas & Scott: 2-10; 16-2; 17/18-25.
Tinicephalus hortulanus (Meyer-Dür): 16-13; 17/18-26.
Trigonotylus caelestialium (Kirkaldy): 2-9; 6-13; 11-13; 16-2.
Trigonotylus psammaecolor Reuter: 2-8; 4-11; 9-4; 9-6; 17/18-26.
Trigonotylus ruficornis (Geoffroy): 8-5; 12-20; 17/18-26.
Tropidosteptes pacificus (Van Duzee): 17/18-16.
Tupiocoris rhododendri (Dolling): 4-3; 4-5; 11-13; 12-18; 12-19; 17/18-16; 17/18-21.
Tuponia brevirostris Reuter: 2-10; 3-5; 4-7; 4-8; 4-11; 6-17; 17/18-21; 19/20-10.
Tuponia mixticolor (A. Costa): 2-10; 4-8; 8-18; 19/20-10.
Tytthus pubescens (Knight): 9-5; 9-6; 17/18-26.
Tytthus pygmaeus (Zetterstedt): 17/18-26.
Zygmus nigriceps (Fallén): 16-3; 19/20-9.

CERATOCOMBIDAE

- Ceratocombus coleopratus* (Zetterstedt): 6-2; 11-16; 17/18-25.

DIPSOCORIDAE

- Cryptostemma alienum* Herrich-Schaeffer: 9-5; 17/18-25.
Pachycoleus waltli Fieber: 6-17; 17/18-29.

SALDIDAE

- Chartoscirta cincta* (Herrich-Schaeffer): 17/18-25; 19/20-8.
Chartoscirta cocksii (Curtis): 17/18-25.
Chartoscirta elegantula (Fallén): 3-4; 17/18-25.
Chiloxanthus pilosus (Fallén): 9-7; 17/18-25.
Halosalda lateralis (Fallén): 4-11; 17/18-25.
Macrosaldula scotica (Curtis): 4-11; 7-16; 9-5; 17/18-25.
Micracanthia marginalis (Fallén): 9-2; 9-5; 9-6.
Salda littoralis (Linnaeus): 11-13; 17/18-25.
Salda morio Zetterstedt: 3-4; 17/18-21; 17/18-25; 17/18-29.
Salda muelleri (Gmelin): 17/18-21; 17/18-25.

SALDIDAE (CONTINUED)

- Saldula arenicola* (Scholtz): 2-10; 12-21.
Saldula c-album (Fieber): 17/18-25.
Saldula melanoscela (Fieber): 1-7.
Saldula opacula (Zetterstedt): 2-8; 2-9; 9-5; 9-6.
Saldula orthochila (Fieber): 10-5; 16-12; 17/18-3; 17/18-25.
Saldula pallipes (Fabricius): 17/18-25.
Saldula palustris (Douglas): 7-14; 17/18-25; 19/20-8.
Saldula pilosella (Thomson): 1-6; 17/18-25.
Saldula saltatoria (Linnaeus): 6-2; 17/18-25; 19/20-8.
Saldula setulosa (Puton): 8-15.
Teloleuca pellucens (Fabricius): 9-7.

AEPOPHILIDAE

- Aepophilus bonnairei* Signoret: 6-13; 9-6; 9-7; 11-6; 17/18-25; 17/18-27; 17/18-29.

MESOVELIIDAE

- Mesovelis furcata* Mulsant & Rey: 1-10; 3-2; 3-9; 6-1; 7-15; 7-16; 7-18; 11-13; 12-18.

HEBRIDAE

- Hebrus pusillus* (Fallén): 3-2; 3-5; 3-9; 7-16; 7-18; 9-5; 9-6; 12-21.
Hebrus ruficeps Thomson: 1-9; 3-2; 3-9; 4-5; 7-16; 7-18; 8-14; 15-1; 15-9; 17/18-25; 19/20-8.

HYDROMETRIDAE

- Hydrometra gracilenta* Horváth: 2-9; 3-2; 3-9; 4-9; 6-16; 7-18; 8-15; 8-19; 17/18-29.
Hydrometra stagnorum (Linnaeus): 2-2; 3-9; 4-6; 6-2; 6-16; 7-1; 7-10; 7-18; 12-18; 16-8;
 17/18-25; 19/20-8.

VELIIDAE

- Microvelia buenoi* Drake: 3-2; 3-9; 3-10; 7-18; 12-18.
Microvelia pygmaea (Dufour): 3-6; 3-9; 3-10; 6-1; 7-18; 12-18; 14-10; 17/18-25; 19/20-7;
 19/20-14.
Microvelia reticulata (Burmeister): 3-9; 3-10; 4-6; 6-1; 7-15; 7-16; 7-18; 8-12; 12-18; 17/18-25;
 19/20-8.
Velia caprai Tamanini: 3-2; 3-9; 4-5; 7-10; 7-18; 11-1; 11-5; 11-11; 12-13; 15-1; 15-9; 17/18-25;
 19/20-8; 19/20-16.
Velia saulii Tamanini: 3-2; 3-9; 6-2; 7-18; 12-13.

GERRIDAE

- Aquarius najas* (De Geer): 3-6; 3-9; 4-5; 4-10; 7-18; 8-13; 8-16; 11-16; 13-11; 14-11; 17/18-22.
Aquarius paludum (Fabricius): 3-2; 3-6; 3-9; 4-5; 6-9; 7-18; 8-12; 9-1; 9-5; 9-11; 9-13; 10-17;
 11-12; 15-7; 16-1; 16-8.
Gerris argentatus Schummel: 1-1; 3-6; 3-9; 6-2; 6-17; 7-18; 16-1; 16-8; 17/18-25; 19/20-8.
Gerris costae (Herrich-Schaeffer): 3-9; 3-10; 6-5; 7-17; 7-18; 10-15; 11-17; 17/18-25; 19/20-8.
Gerris gibbifer Schummel: 1-1; 1-3; 3-6; 3-9; 4-10; 7-18; 17/18-25; 19/20-12.
Gerris lacustris (Linnaeus): 3-2; 3-6; 3-9; 4-6; 6-2; 6-7; 7-1; 7-18; 9-3; 10-13; 11-12; 16-3; 16-8;
 17/18-22; 17/18-25; 19/20-8.
Gerris lateralis Schummel: 1-10; 3-2; 3-9; 3-10; 6-2; 7-18; 8-18; 8-19; 11-13; 17/18-25.
Gerris odontogaster (Zetterstedt): 3-9; 7-16; 7-18; 9-13; 12-18; 17/18-25; 19/20-8.
Gerris thoracicus Schummel: 1-5; 3-9; 4-6; 6-2; 7-16; 7-18; 8-12; 10-15; 17/18-22; 17/18-25;
 19/20-8.
Limnaporus rufoscutellatus (Latreille): 2-9; 3-2; 3-9; 3-10; 7-18; 19/20-7; 19/20-8.

NEPIDAE

Nepa cinerea Linnaeus: 1-3; 2-8; 2-9; 2-10; 3-8; 4-6; 7-17; 8-12; 9-3; 11-11; 12-18; 15-9; 17/18-25; 19/20-8.

NEPIDAE (CONTINUED)

Ranatra linearis (Linnaeus): 1-3; 2-2; 2-8; 2-10; 3-6; 3-8; 4-3; 5-6; 5-7; 6-6; 6-14; 7-15; 7-16; 7-17; 8-14; 8-15; 8-18; 9-10; 10-1; 10-10; 11-17; 12-18; 12-19; 15-9; 16-8; 17/18-1; 17/18-18; 17/18-25.

NAUCORIDAE

Ilyocoris cimicoides (Linnaeus): 3-2; 3-9; 4-2; 4-6; 5-8; 7-12; 7-15; 7-18; 8-13; 8-14; 12-18; 14-2; 16-3; 16-8; 17/18-25; 19/20-12.

Naucoris maculatus Fabricius: 3-2; 3-10; 4-2; 5-5; 7-12; 7-17; 7-18; 8-19; 14-2.

APHELOCHEIRIDAE

Aphelocheirus aestivalis (Fabricius): 1-10; 3-2; 3-9; 7-18; 8-1; 8-11; 12-18; 13-1; 13-2; 17/18-25; 19/20-3.

NOTONECTIDAE

Notonecta glauca Linnaeus: 3-9; 3-10; 4-5; 4-6; 6-2; 6-15; 7-10; 7-18; 8-14; 12-18; 12-19; 16-8; 17/18-1; 17/18-18; 17/18-22; 17/18-25; 19/20-8; 19/20-14.

Notonecta maculata Fabricius: 3-9; 6-2; 6-15; 6-16; 7-18; 12-18; 12-19; 14-12; 17/18-25.

Notonecta obliqua Thunberg: 3-9; 4-3; 4-5; 6-7; 7-18; 8-13; 12-18; 17/18-22; 17/18-25; 19/20-8; 19/20-12.

Notonecta viridis Delcourt: 2-8; 2-9; 3-6; 3-9; 3-10; 4-5; 5-7; 7-10; 7-15; 7-18; 8-14; 10-13; 11-16; 12-18; 16-8; 17/18-25.

PLEIDAE

Plea minutissima Leach: 3-2; 3-9; 3-10; 6-14; 7-10; 7-15; 7-16; 7-18; 8-13; 11-16; 12-18; 17/18-25.

CORIXIDAE

Arctocorisa carinata (C.R. Sahlberg): 1-6; 3-1; 3-8; 6-1; 7-17; 8-14; 9-5.

Arctocorisa germari (Fieber): 3-8; 6-9; 7-10; 7-17; 9-8; 10-17; 11-12; 17/18-25.

Callicorixa praeusta (Fieber): 3-8; 4-6; 7-17; 12-18; 17/18-22; 17/18-25; 19/20-8.

Callicorixa wollastoni (Douglas & Scott): 3-1; 3-8; 7-16; 7-17; 8-14; 11-17; 17/18-3; 17/18-25; 19/20-8.

Corixa affinis Leach: 1-5; 2-8; 3-8; 3-10; 6-2; 7-10; 7-17; 11-12; 12-18; 12-19; 17/18-1; 17/18-18.

Corixa dentipes Thomson: 1-10; 3-8; 7-17; 10-5; 17/18-25.

Corixa iberica Jansson: 1-10; 3-1; 3-8; 3-10; 6-2; 6-16; 7-1; 7-4; 7-5; 7-6; 7-7; 7-8; 7-9; 7-17; 8-1; 8-18; 11-8; 19/20-8.

Corixa panzeri Fieber: 3-8; 3-10; 6-2; 7-17; 10-5; 11-12; 12-18; 15-12; 17/18-25.

Corixa punctata (Illiger): 1-6; 1-9; 3-8; 3-10; 4-6; 6-2; 6-16; 7-4; 7-5; 7-6; 7-7; 7-8; 7-9; 7-10; 7-17; 8-18; 12-18; 15-12; 17/18-22; 17/18-25; 19/20-8.

Cymatia bondsdorffii (C.R. Sahlberg): 3-8; 3-10; 7-17; 8-13; 10-13; 11-12; 12-18; 12-19; 17/18-25; 17/18-27; 19/20-12.

Cymatia coleoptrata (Fabricius): 1-10; 3-6; 3-8; 5-6; 7-16; 7-17; 8-13; 8-14; 10-13; 11-12; 12-18; 16-8; 17/18-25.

Cymatia rogenhoferi (Fieber): 3-1; 3-3; 6-16; 7-12; 7-17; 8-13; 10-4; 10-5; 10-16; 11-15; 14-2; 14-3; 16-1; 16-8.

Glaenocorisa propinqua (Fieber): 1-10; 5-7; 7-17; 8-13; 8-14; 11-6; 17/18-25; 19/20-8.

Hesperocorixa castanea (Thomson): 3-8; 7-17; 8-14; 8-18; 11-17; 17/18-25; 19/20-8; 19/20-12.

Hesperocorixa linnaei (Fieber): 3-8; 3-10; 4-6; 7-16; 7-17; 12-18; 12-19; 17/18-25; 19/20-8.

Hesperocorixa moesta (Fieber): 3-1; 3-8; 6-2; 7-17; 17/18-25.

Hesperocorixa sahlbergi (Fieber): 3-8; 4-6; 6-2; 7-17; 12-18; 17/18-25.

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- Micronecta griseola* Horváth: 1-4; 1-7; 1-8; 2-3; 2-10; 3-1; 3-3; 3-6; 3-8; 3-10; 4-10; 4-11; 6-1; 6-16; 7-17; 10-15; 11-12; 14-2; 14-3; 19/20-15.
- Micronecta minutissima* (Linnaeus): 1-3; 1-4; 1-8; 2-3; 3-1; 3-5; 3-8; 3-10; 4-10; 7-17; 9-5; 11-12; 14-2.
- Micronecta poweri* (Douglas & Scott): 1-3; 1-10; 3-1; 3-8; 3-10; 5-7; 7-15; 7-17; 8-12; 11-16; 17/18-25; 19/20-8.
- Micronecta scholtzi* (Fieber): 1-4; 3-8; 3-10; 5-6; 7-15; 7-17; 8-14; 11-17; 14-2; 17/18-25.
- Paracorixa concinna* (Fieber): 3-9; 3-10; 6-7; 7-10; 7-12; 7-17; 9-8; 10-5; 12-18; 17/18-25.
- Sigara distincta* (Fieber): 3-9; 7-12; 7-18; 9-8; 12-18; 12-19; 17/18-22; 17/18-25.
- Sigara dorsalis* (Leach): 3-1; 3-2; 3-9; 3-10; 4-6; 7-17; 8-2; 8-3; 8-12; 8-13; 10-13; 11-7; 11-8; 12-18; 12-19; 16-8; 17/18-25; 19/20-8.
- Sigara falleni* (Fieber): 3-9; 3-10; 5-4; 6-7; 7-12; 7-18; 9-8; 10-17; 11-14; 14-2; 14-3; 15-9; 16-8; 17/18-25.
- Sigara fallenoidea* (Hungerford): 2-9; 3-1; 3-9; 3-10; 6-16; 7-18.
- Sigara fossarum* (Leach): 3-9; 7-18; 12-18; 17/18-25.
- Sigara iactans* Jansson: 3-1; 4-11; 5-1; 5-4; 5-5; 5-8; 6-7; 6-15; 7-12; 7-17; 7-18; 9-8; 9-14; 9-16; 10-4; 10-13; 10-16; 10-17; 11-7; 11-14; 12-18; 14-2; 14-3; 15-1; 15-9; 15-12.
- Sigara lateralis* (Leach): 1-5; 1-6; 3-9; 4-6; 7-10; 7-12; 7-18; 12-18; 15-9; 16-8; 17/18-22; 17/18-25.
- Sigara limitata* (Fieber): 3-9; 5-7; 6-2; 7-17; 8-13; 9-11; 11-17; 12-19; 16-1; 16-8; 17/18-25.
- Sigara longipalis* (J. Sahlberg): 3-1; 9-1; 9-8; 14-2; 14-3.
- Sigara nigrolineata* (Fieber): 3-9; 4-6; 6-2; 7-10; 7-17; 17/18-22; 17/18-25; 19/20-8.
- Sigara scotti* (Douglas & Scott): 3-9; 7-16; 7-18; 11-13; 17/18-25; 19/20-12.
- Sigara selecta* (Fieber): 1-5; 1-6; 3-9; 6-2; 7-17; 9-5; 11-17; 17/18-25.
- Sigara semistriata* (Fieber): 3-9; 7-17; 12-19; 17/18-25; 19/20-12.
- Sigara stagnalis* (Leach): 1-5; 1-6; 2-8; 3-9; 7-10; 7-17; 11-17; 12-18; 17/18-25.
- Sigara striata* (Linnaeus): 1-10; 3-1; 3-9; 3-10; 6-7; 6-16; 7-18; 8-13; 9-5; 11-1; 11-7; 11-8.
- Sigara venusta* (Douglas & Scott): 3-1; 3-9; 6-2; 7-17; 12-19; 12-21; 17/18-18; 17/18-25; 19/20-8.

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***PSALLUS PARDALIS* SEIDENSTÜCKER, 1966 (HEMIPTERA: MIRIDAE)
NEW TO BRITAIN**

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Introduction

The author carried out a general invertebrate survey of a site in Windsor town (SU97, VC 22) on 16 June 2016. A single mature Turkey Oak *Quercus cerris* was noted, and mindful of the recent discoveries of three species of *Psallus* (Miridae) new to Britain from this host (Bantock, 2015; Kirby, 2015; Ryan, 2016), a sample was taken by beating branches. There were large numbers of *Psallus* on the beating tray and the 23 specimens pooted up represented a small proportion of those seen. Using the key, descriptions and illustrations in Wyniger (2004), the bugs were identified as 7 male *Psallus pardalis* Seidenstücker, 1966, 3 male *P. anaemicus* Seidenstücker, 1966, 12 females of either *P. pardalis* or *P. anaemicus*, and a single male *P. wagneri* Ossiannilsson, 1953. Two dissected male specimens were sent to Tristan Bantock who has agreed with the identification (*in litt.*, 7 October 2016). This is the first record of *P. pardalis* from Britain.

Kirby (2015) discovered both *P. anaemicus* and *P. helenae* Josifov, 1969 by beating Turkey Oak at Peterborough in June 2014. He reasoned that both have been established for some time in Britain and may be widespread. His reasoning appears to have been correct, with both since recorded from Oxford (Ryan, 2016) and the London area (Tristan Bantock, pers. comm.). The increased interest in bugs on Turkey Oak has also led to the discovery of *P. lucanicus* Wagner, 1968 in Bedfordshire by Bernard Nau and in Oxford by Rob Ryan (Ryan, 2016). With the discovery of *P. pardalis* at Windsor, four species of *Psallus* new to Britain have now been discovered on Turkey Oak within three years.

Identification

Psallus pardalis differs from *P. anaemicus*, *P. helenae* and *P. lucanicus* in the covering of reddish-orange spots on the upper surface (Figure 1), the other species being largely unspotted. Seidenstücker (1972) regarded *P. pardalis* as forming a species-group (with *P. punctulatus* Puton, 1874 and *P. lentigo* Seidenstücker, 1972) characterised by being red-spotted over a whitish or light yellow-brown ground colour; with dual pubescence of black and golden-yellow hairs; with light-coloured antennae, segment 1 bearing a pair of small dark bristles arising from dark spots; rostrum extending slightly beyond the hind coxae; femora 3 to 3.3 times as long as broad; tibiae with black bristles arising from black spots; and with the underside spotted with orange-red.

Wyniger (2004) provides line drawings of the aedeagi of all central European species of *Psallus*. The generally twisted, helical shape of the aedeagi of *Psallus* makes it a difficult structure to illustrate. Small adjustments in the angle of viewing can make substantial differences in its appearance (Figures 2 & 3). The small, narrow, straight, pointed ‘apical lateral process’ of the aedeagus of *P. pardalis* (arrowed in Fig. 17 of Wyniger (2004)) has proved hard to discern in Windsor specimens which have not been cleared in hot KOH (unlike Wyniger’s specimens). Seidenstücker’s paper on *P. pardalis* and the other two red-spotted species includes excellent line-drawings of the aedeagi as well as of the last abdominal segment which is particularly distinctive in *P. pardalis* (Figure 4).

Status in Britain

Turkey Oak is the only host plant of *P. pardalis* (Wyniger, 2004). As Turkey Oak is a non-native species in Britain, so must *P. pardalis* also be a non-native species, as also must *P. anaemicus*, *P. helenae* and *P. lucanicus*. Turkey Oak was being imported from the continent and cultivated in Britain by 1735 and has been known from the wild since at least 1905. It is thought to have increased substantially in the period since 1962 and is now almost ubiquitous at the hectad scale in southern,

lowland Britain (Preston *et al.*, 2002). It is a matter of speculation as to when and how these *Psallus* species arrived in Britain, but all are now established. In view of the abundance and distribution of their host tree, it may be predicted that all four may become fully naturalised on British Turkey Oaks in coming years.

Acknowledgements

I would like to thank the following: Tristan Bantock for confirming my identification and for commenting on a draft; Chris Raper, Florin Feneru and Jaswinder Bopari of the Angela Marmont Centre for UK Biodiversity, Natural History Museum, London, for assistance and use of the photomontage equipment.



FIGURE 1. Male *Psallus pardalis* Seidenstücker, 1966 from Windsor.

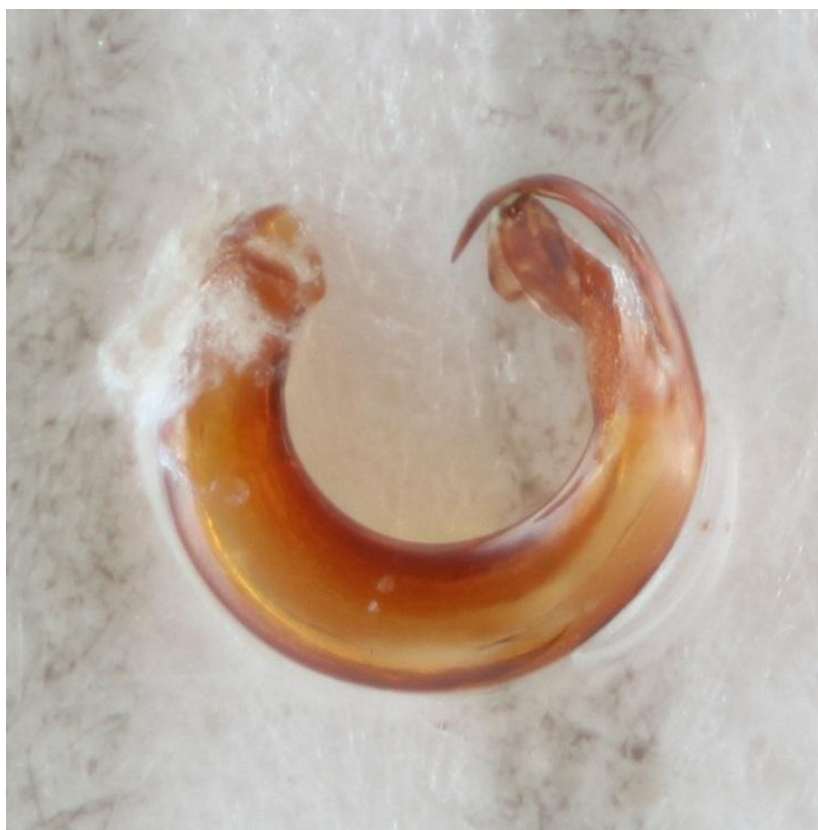


FIGURE 2. Aedeagus of *P. pardalis* viewed along the axis of the helix.



FIGURE 3. Aedeagus of *P. pardalis* viewed to show the apex in full profile.



FIGURE 4. Last abdominal segment of male *P. pardalis* viewing slightly to the left of full dorsal.

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THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR YORKSHIRE INTO VICE-COUNTY LISTS FOR VC61, VC62, VC63, VC64 AND VC65

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Introduction

The list of Hemiptera-Heteroptera for Yorkshire in Ryan (2014) was compiled from that of Massee (1955) with additional records from the national entomological literature published in the six decades between these two papers. Ryan did not consider local publications, in particular those of *The Naturalist*; and did not attempt to divide the list for Yorkshire into separate lists for its constituent vice-counties, which are the basis of modern recording. The present paper addresses these shortcomings, adding new county records and dividing the county list into separate lists for Watsonian South-east Yorkshire (VC61), North-east Yorkshire (VC62), South-west Yorkshire (VC63), Mid-west Yorkshire (VC64) and North-west Yorkshire (VC65).

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a & 2016b). The resulting vice-county lists include 1,111 records, compared with 346 for the original Yorkshire list. The list for Yorkshire as a whole has lengthened by 29, the increase arising from 39 species added to the list and 10 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The lists for the five vice-counties, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Yorkshire are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets after the vice-county number relate to the references from which they were derived, as indicated in Table 1.

The divided records

ARADIDAE

<i>Aradus depressus</i> (Fabricius)	61(29)	62(35)	63(1)	64(28)	-
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ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus)	-	62(6)	63(13)	64(1)	-
<i>Cyphostethus tristriatus</i> (Fabricius)	-	-	63(73)	-	-
<i>Elasmotethus interstinctus</i> (Linnaeus)	61(1)	62(6)	63(1)	64(12)	-
<i>Elasmucha ferrugata</i> (Fabricius)	-	-	63(1)	-	-
<i>Elasmucha grisea</i> (Linnaeus)	61(1)	62(13)	63(1)	64(12)	-

CYDNIDAE

<i>Legnotus limbosus</i> (Geoffroy) [NEW]	-	-	63(63)	-	-
<i>Legnotus picipes</i> (Fallén)	61(30)	-	-	-	-
<i>Sehirus luctuosus</i> Mulsant & Rey [NEW]	-	-	63(63)	-	-
<i>Tritomegas bicolor</i> (Linnaeus) [NEW]	61(50)	-	63(44)	64(56)	-

THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus) [NEW]	-	-	63(63)	-	-
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PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	-	-	63(80)	-	-
<i>Dolycoris baccarum</i> (Linnaeus)	61(80)	-	63(80)	-	-
<i>Eysarcoris venustissimus</i> (Schränk)	-	-	63(79)	-	-
<i>Neottiglossa pusilla</i> (Gmelin)	-	-	63(79)	-	-

PENTATOMIDAE (CONTINUED)

<i>Palomena prasina</i> (Linnaeus)	61(80)	-	63(79)	-	-
<i>Pentatoma rufipes</i> (Linnaeus)	61(1)	62(15)	63(1)	64(1)	65(49)
<i>Picromerus bidens</i> (Linnaeus)	61(1)	62(1)	63(58)	64(25)	-
<i>Piezodorus lituratus</i> (Fabricius)	61(5)	62(6)	63(62)	64(56)	-
<i>Podops inunctus</i> (Fabricius) [NEW]	-	-	63(100)	-	-
<i>Rhacognathus punctatus</i> (Linnaeus)	61(2)	62(14)	63(62)	-	-
<i>Troilus luridus</i> (Fabricius)	61(52)	62(56)	63(79)	-	-
<i>Zicrona caerulea</i> (Linnaeus)	61(1)	62(1)	63(44)	64(36)	-

COREIDAE

<i>Ceraleptus lividus</i> Stein [NEW]	-	-	63(99)	-	-
<i>Coreus marginatus</i> (Linnaeus)	-	62(17)	-	-	-
<i>Coriomeris denticulatus</i> (Scopoli)	-	-	63(2)	-	-
<i>Enoplops scapha</i> (Fabricius)	-	62(1)	-	-	-
<i>Leptoglossus occidentalis</i> Heidemann	-	62(85)	63(63)	64(85)	-

ALYDIDAE

<i>Alydus calcaratus</i> (Linnaeus)	-	62(1)	-	-	-
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RHOPALIDAE

<i>Chorosoma schillingii</i> (Schilling)	61(78)	-	63(79)	-	-
<i>Corizus hyoscyami</i> (Linnaeus)	61(88)	-	63(98)	-	-
<i>Myrmus miriformis</i> (Fallén)	61(5)	62(6)	63(1)	-	-
<i>Rhopalus subrufus</i> (Gmelin)	-	-	63(80)	-	-
<i>Stictopleurus abutilon</i> (Rossi)	61(80)	-	-	-	-
<i>Stictopleurus punctatonevrosus</i> (Goeze)	-	-	63(82)	-	-

PYRRHOCORIDAE

<i>Pyrrhocoris apterus</i> (Linnaeus)	-	-	63(1)	64(1)	-
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LYGAEIDAE

<i>Acompus rufipes</i> (Wolff) [NEW]	-	-	-	64(40)	-
<i>Chilacis typhae</i> (Perris)	61(22)	62(33)	63(62)	-	-
<i>Cymus claviculus</i> (Fallén)	61(13)	62(16)	63(50)	-	-
<i>Cymus glandicolor</i> Hahn	61(1)	62(40)	63(61)	64(39)	-
<i>Cymus melanocephalus</i> Fieber [NEW]	-	-	63(62)	-	-
<i>Drymus brunneus</i> (R.F. Sahlberg)	61(6)	62(2)	63(1)	64(24)	-
<i>Drymus latus</i> Douglas & Scott	-	-	63(86)	-	-
<i>Drymus pilipes</i> Fieber	-	62(74)	-	-	-
<i>Drymus ryeii</i> Douglas & Scott	61(1)	-	63(1)	-	-
<i>Drymus sylvaticus</i> (Fabricius)	61(6)	62(6)	63(1)	64(1)	-
<i>Eremocoris fenestratus</i> (Herrich-Schaeffer)	-	-	63(89)	-	-
<i>Gastrodes abietum</i> Bergroth [DELETED]	-	-	-	-	-
<i>Gastrodes grossipes</i> (De Geer)	61(1)	62(9)	63(58)	64(54)	65(53)
<i>Heterogaster urticae</i> (Fabricius)	61(26)	-	63(79)	-	-
<i>Ischnodemus sabuleti</i> (Fallén)	61(56)	-	63(50)	64(56)	-
<i>Kleidocerys ericae</i> (Horváth)	61(13)	62(1)	63(44)	-	-
<i>Kleidocerys resedae</i> (Panzer)	61(50)	-	63(54)	64(59)	-
<i>Lamproplax picea</i> (Flor)	61(50)	62(1)	63(54)	-	-
<i>Macrodemus microptera</i> (Curtis)	61(58)	62(6)	63(1)	-	-
<i>Megalonotus antennatus</i> (Schilling) [NEW]	-	-	63(102)	-	-
<i>Megalonotus chiragra</i> (Fabricius)	61(90)	-	-	-	-
<i>Megalonotus dilatatus</i> (Herrich-Schaeffer)	61(90)	-	63(63)	-	-
<i>Megalonotus emarginatus</i> (Rey)	-	-	63(62)	-	-

LYGAEIDAE (CONTINUED)

<i>Megalonotus praetextatus</i> (Herrich-Schaeffer)	61(6)	-	-	-	-
<i>Megalonotus sabulicola</i> (Thomson)	61(90)	-	-	-	-
<i>Nysius cymoides</i> (Spinola)	61(78)	-	-	-	-
<i>Nysius ericae</i> (Schilling)	61(42)	62(40)	63(62)	64(40)	-
<i>Nysius huttoni</i> F.B. White [NEW]	-	-	63(101)	-	-
<i>Nysius senecionis</i> (Schilling)	61(69)	-	63(103)	-	-
<i>Nysius thymi</i> (Wolff) [NEW]	61(40)	62(56)	-	64(56)	-
<i>Pachybrachius fracticollis</i> (Schilling)	-	-	63(67)	-	-
<i>Peritrechus geniculatus</i> (Hahn)	-	-	63(67)	-	-
<i>Peritrechus lundii</i> (Gmelin)	61(6)	-	-	-	-
<i>Peritrechus nubilus</i> (Fallén)	61(78)	-	63(79)	-	-
<i>Plinthisus brevipennis</i> (Latreille)	-	62(6)	63(58)	-	-
<i>Scolopostethus affinis</i> (Schilling)	61(1)	62(5)	63(1)	64(4)	-
<i>Scolopostethus decoratus</i> (Hahn)	61(1)	62(6)	63(1)	64(15)	-
<i>Scolopostethus grandis</i> Horváth	61(50)	-	-	64(59)	-
<i>Scolopostethus thomsoni</i> Reuter	61(50)	62(6)	63(1)	64(2)	-
<i>Stygnocoris fuligineus</i> (Geoffroy)	61(1)	62(9)	63(1)	-	-
<i>Stygnocoris rusticus</i> (Fallén)	61(44)	62(1)	-	64(34)	-
<i>Stygnocoris sabulosus</i> (Schilling)	61(2)	62(7)	63(1)	-	65(2)
<i>Taphropeltus contractus</i> (Herrich-Schaeffer)	61(6)	62(20)	63(54)	-	-
<i>Trapezonotus desertus</i> Seidenstücker [NEW]	-	-	63(62)	-	-

BERYTIDAE

<i>Berytinus clavipes</i> (Fabricius) [DELETED]	-	-	-	-	-
<i>Berytinus crassipes</i> (Herrich-Schaeffer)	-	-	63(1)	-	-
<i>Berytinus minor</i> (Herrich-Schaeffer)	61(6)	-	-	-	-
<i>Berytinus montivagus</i> (Meyer-Dür)	61(66)	-	63(79)	-	-
<i>Berytinus signoreti</i> (Fieber)	61(26)	62(1)	63(79)	64(34)	-
<i>Gampsocoris punctipes</i> (Germar)	61(6)	62(41)	-	-	-
<i>Metatropis rufescens</i> (Herrich-Schaeffer)	-	-	63(86)	-	-
<i>Neides tipularius</i> (Linnaeus) [NEW]	-	-	63(104)	-	-

PIESMATIDAE

<i>Parapiesma quadratum</i> (Fieber)	61(6)	-	-	-	-
<i>Piesma maculatum</i> (Laporte)	61(1)	62(16)	63(1)	64(12)	-

TINGIDAE

<i>Acalypta brunnea</i> (Germar)	-	62(1)	-	64(56)	65(6)
<i>Acalypta carinata</i> (Panzer)	-	62(1)	-	64(14)	65(53)
<i>Acalypta parvula</i> (Fallén)	-	62(10)	63(10)	-	65(2)
<i>Campylosteira verna</i> (Fallén)	61(67)	-	-	-	-
<i>Catoplatus fabricii</i> (Stål)	-	-	63(86)	-	-
<i>Derephysia foliacea</i> (Fallén)	-	62(1)	63(2)	64(39)	-
<i>Dictyla convergens</i> (Herrich-Schaeffer)	-	-	63(56)	64(56)	-
<i>Dictyonota strichnocera</i> Fieber	61(1)	-	63(56)	-	-
<i>Kalama tricornis</i> (Schränk)	61(28)	62(1)	-	-	-
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	-	-	63(86)	64(104)	-
<i>Stephanitis rhododendri</i> Horváth [DELETED]	-	-	-	-	-
<i>Stephanitis takeyai</i> Drake & Maa	-	-	63(91)	-	-
<i>Tingis ampliata</i> (Herrich-Schaeffer)	61(13)	-	63(1)	64(24)	65(24)
<i>Tingis cardui</i> (Linnaeus)	61(2)	62(1)	63(62)	64(29)	65(49)
<i>Tingis reticulata</i> Herrich-Schaeffer	-	62(1)	-	-	-

REDUVIIDAE

<i>Coranus aethiops</i> Jakovlev	-	-	63(75)	-	-
<i>Empicoris culiciformis</i> (De Geer)	-	62(1)	63(10)	64(44)	-
<i>Empicoris vagabundus</i> (Linnaeus)	61(50)	62(1)	63(13)	64(12)	-

NABIDAE

<i>Himacerus apterus</i> (Fabricius)	61(80)	-	63(79)	64(80)	-
<i>Himacerus boops</i> (Schjødte)	61(66)	-	63(67)	-	-
<i>Himacerus major</i> (A. Costa)	61(6)	62(7)	63(1)	-	65(58)
<i>Himacerus mirmicoides</i> (O. Costa)	-	-	63(80)	-	-
<i>Nabis brevis</i> Scholtz	-	-	63(63)	-	-
<i>Nabis ericetorum</i> Scholtz	61(47)	62(6)	63(1)	64(35)	-
<i>Nabis ferus</i> (Linnaeus)	61(3)	62(6)	63(1)	64(10)	-
<i>Nabis flavomarginatus</i> Scholtz	61(1)	62(1)	63(1)	64(1)	65(11)
<i>Nabis limbatus</i> Dahlbom	61(1)	62(6)	63(1)	64(1)	65(11)
<i>Nabis lineatus</i> Dahlbom	61(28)	-	63(44)	-	-
<i>Nabis rugosus</i> (Linnaeus)	61(15)	62(6)	63(1)	-	65(49)

ANTHOCORIDAE

<i>Acompocoris alpinus</i> Reuter [NEW]	-	-	-	-	65(53)
<i>Acompocoris pygmaeus</i> (Fallén)	61(1)	62(6)	63(1)	64(15)	65(11)
<i>Anthocoris amplicollis</i> Horváth	-	62(57)	-	-	-
<i>Anthocoris butleri</i> Le Quesne [NEW]	-	62(57)	63(54)	-	-
<i>Anthocoris confusus</i> Reuter	61(1)	62(1)	63(1)	64(4)	65(11)
<i>Anthocoris gallarumulmi</i> (De Geer)	61(1)	-	63(9)	64(36)	-
<i>Anthocoris limbatus</i> Fieber	-	-	63(44)	-	-
<i>Anthocoris nemoralis</i> (Fabricius)	61(1)	62(1)	63(1)	-	65(1)
<i>Anthocoris nemorum</i> (Linnaeus)	61(1)	62(1)	63(1)	64(1)	65(1)
<i>Anthocoris sarothamni</i> Douglas & Scott	-	62(7)	-	-	-
<i>Anthocoris simulans</i> Reuter [NEW]	61(50)	-	63(54)	64(36)	65(57)
<i>Buchananiella continua</i> (F.B. White)	61(71)	-	63(82)	-	-
<i>Dufouriellus ater</i> (Dufour)	61(81)	-	-	-	-
<i>Elatophilus nigricornis</i> (Zetterstedt)	-	62(18)	-	64(57)	-
<i>Lyctocoris campestris</i> (Fabricius)	61(30)	62(1)	63(2)	64(50)	-
<i>Orius laevigatus</i> (Fieber)	61(26)	-	63(79)	-	-
<i>Orius laticollis</i> (Reuter)	-	-	63(80)	-	-
<i>Orius majusculus</i> (Reuter)	61(1)	62(38)	63(1)	64(38)	65(24)
<i>Orius niger</i> (Wolff)	61(29)	62(44)	63(101)	-	-
<i>Temnostethus gracilis</i> Horváth [NEW]	-	62(38)	-	-	65(41)
<i>Temnostethus pusillus</i> (Herrich-Schaeffer)	-	62(57)	-	64(57)	-
<i>Tetraphleps bicuspis</i> (Herrich-Schaeffer)	61(2)	62(6)	63(1)	64(31)	65(11)
<i>Xylocoris cursitans</i> (Fallén)	61(5)	-	63(62)	64(29)	65(25)
<i>Xylocoris galactinus</i> (Fieber)	-	62(1)	63(36)	64(34)	-

CIMICIDAE

<i>Cimex columbarius</i> Jenyns [DELETED]	-	-	-	-	-
<i>Cimex lectularius</i> Linnaeus	61(1)	62(6)	63(1)	-	-

MICROPHYSIDAE

<i>Loricula elegantula</i> (Baerensprung)	61(30)	62(1)	63(13)	-	65(14)
<i>Loricula exilis</i> (Fallén) [NEW]	-	-	-	64(36)	-
<i>Loricula inconspicua</i> (Douglas & Scott) [DELETED]-	-	-	-	-	-
<i>Loricula pselaphiformis</i> Curtis	61(26)	62(2)	63(1)	64(34)	65(14)

MIRIDAE

<i>Acetropis gimmerthalii</i> (Flor)	61(50)	-	-	-	-
<i>Adelphocoris lineolatus</i> (Goeze)	61(2)	62(5)	-	-	-
<i>Adelphocoris seticornis</i> (Fabricius)	61(1)	-	-	-	-
<i>Amblytulus brevicollis</i> Fieber	-	-	-	-	65(57)
<i>Amblytulus nasutus</i> (Kirschbaum)	-	-	63(79)	-	-
<i>Apolygus lucorum</i> (Meyer-Dür)	61(2)	-	63(44)	64(1)	-
<i>Apolygus spinolae</i> (Meyer-Dür)	-	62(7)	63(52)	-	-
<i>Asciodema obsoleta</i> (Fieber)	61(2)	62(6)	63(1)	-	65(13)
<i>Atractotomus magnicornis</i> (Fallén)	61(2)	62(6)	63(1)	64(13)	65(14)
<i>Atractotomus mali</i> (Meyer-Dür) [NEW]	-	-	63(63)	-	-
<i>Blepharidopterus angulatus</i> (Fallén)	61(1)	62(6)	63(1)	64(1)	65(1)
<i>Blepharidopterus diaphanus</i> (Kirschbaum)	-	-	63(1)	-	-
<i>Bothynotus pilosus</i> (Boheman) [NEW]	-	-	-	64(34)	-
<i>Brachyarthrum limitatum</i> Fieber [NEW]	-	-	63(58)	-	-
<i>Bryocoris pteridis</i> (Fallén)	61(50)	62(1)	63(5)	-	65(6)
<i>Calocoris alpestris</i> (Meyer-Dür)	61(1)	62(2)	63(1)	64(2)	-
<i>Calocoris roseomaculatus</i> (De Geer)	61(5)	62(7)	63(54)	64(12)	-
<i>Camptozygum aequale</i> (Villers)	61(1)	62(15)	63(9)	64(15)	65(11)
<i>Campyloneura virgula</i> (Herrich-Schaeffer)	-	62(6)	63(54)	64(39)	65(11)
<i>Capsodes gothicus</i> (Linnaeus)	61(1)	62(1)	63(1)	-	-
<i>Capsus ater</i> (Linnaeus)	61(1)	62(6)	63(1)	64(1)	65(58)
<i>Capsus wagneri</i> (Remane)	61(44)	-	-	64(31)	-
<i>Charagochilus gyllenhalii</i> (Fallén)	-	62(1)	63(63)	64(34)	-
<i>Chlamydatus evanescens</i> (Boheman) [NEW]	-	-	63(104)	-	-
<i>Chlamydatus pullus</i> (Reuter)	-	-	63(58)	-	65(12)
<i>Chlamydatus saltitans</i> (Fallén)	61(43)	-	63(58)	64(56)	-
<i>Chlamydatus wilkinsoni</i> (Douglas & Scott)	-	62(1)	-	-	-
<i>Closterotomus fulvomaculatus</i> (De Geer)	-	-	63(1)	64(2)	-
<i>Closterotomus norwegicus</i> (Gmelin)	61(1)	62(5)	63(1)	64(1)	65(5)
<i>Closterotomus trivialis</i> (A. Costa) [DELETED]	-	-	-	-	-
<i>Compsidolon salicellum</i> (Herrich-Schaeffer)	-	62(1)	63(17)	64(38)	-
<i>Conostethus griseus</i> Douglas & Scott	61(56)	62(56)	-	-	-
<i>Conostethus roseus</i> (Fallén)	-	62(1)	63(80)	-	-
<i>Conostethus venustus</i> (Fieber)	-	-	63(72)	-	-
<i>Cyllecoris histrionius</i> (Linnaeus)	61(1)	62(6)	63(1)	64(15)	-
<i>Cyrtorhinus caricis</i> (Fallén)	61(15)	62(20)	63(1)	64(24)	-
<i>Deraeocoris flavilinea</i> (A. Costa)	61(88)	-	63(86)	-	-
<i>Deraeocoris lutescens</i> (Schilling) [NEW]	-	-	63(50)	64(50)	-
<i>Deraeocoris ruber</i> (Linnaeus)	-	62(13)	63(44)	64(28)	-
<i>Deraeocoris scutellaris</i> (Fabricius)	-	62(50)	63(32)	-	-
<i>Dichroscytus rufipennis</i> (Fallén)	61(1)	62(1)	63(10)	64(15)	65(1)
<i>Dicyphus annulatus</i> (Wolff)	61(56)	62(1)	63(62)	-	-
<i>Dicyphus constrictus</i> (Boheman)	-	62(1)	63(15)	-	-
<i>Dicyphus epilobii</i> Reuter	61(2)	62(6)	63(1)	-	65(24)
<i>Dicyphus errans</i> (Wolff)	-	62(1)	63(2)	64(2)	65(11)
<i>Dicyphus globulifer</i> (Fallén)	61(50)	62(1)	63(44)	-	-
<i>Dicyphus pallicornis</i> (Fieber)	-	62(1)	63(2)	-	65(56)
<i>Dicyphus stachydis</i> J. Sahlberg	61(2)	62(6)	63(1)	64(2)	65(49)
<i>Dryophilocoris flavoquadrimaculatus</i> (De Geer)	61(1)	62(6)	63(1)	-	65(14)
<i>Europiella artemisiae</i> (Becker)	61(70)	-	-	-	-
<i>Europiella decolor</i> (Uhler)	61(70)	-	-	-	-
<i>Fieberocapsus flaveolus</i> (Reuter)	61(2)	-	-	64(42)	-
<i>Globiceps flavomaculatus</i> (Fabricius)	61(1)	62(38)	63(44)	-	-
<i>Globiceps fulvicollis</i> Jakovlev	61(24)	-	63(1)	-	-

MIRIDAE (CONTINUED)

<i>Globiceps juniperi</i> Reuter [NEW]	61(58)	-	63(58)	-	-
<i>Grypocoris stysi</i> (Wagner)	61(1)	62(1)	63(1)	64(1)	65(11)
<i>Hallodapus rufescens</i> (Burmeister)	-	62(54)	63(1)	-	-
<i>Harpocera thoracica</i> (Fallén)	61(48)	62(2)	63(9)	64(1)	65(10)
<i>Heterocordylus genistae</i> (Scopoli)	-	-	63(54)	64(13)	-
<i>Heterocordylus tibialis</i> (Hahn)	61(12)	62(6)	63(5)	64(56)	-
<i>Heterotoma planicornis</i> (Pallas)	61(1)	62(16)	63(1)	64(15)	65(58)
<i>Hoplomachus thunbergii</i> (Fallén)	61(50)	62(44)	63(46)	-	-
<i>Leptopterna dolabrata</i> (Linnaeus)	61(1)	62(1)	63(1)	64(2)	65(68)
<i>Leptopterna ferrugata</i> (Fallén)	61(1)	62(1)	63(1)	-	65(5)
<i>Liocoris tripustulatus</i> (Fabricius)	61(1)	62(6)	63(1)	64(2)	65(49)
<i>Lopus decolor</i> (Fallén)	61(15)	-	63(42)	64(36)	-
<i>Lygocoris pabulinus</i> (Linnaeus)	61(1)	62(6)	63(1)	64(1)	65(1)
<i>Lygocoris rugicollis</i> (Fallén)	61(1)	62(6)	63(1)	64(1)	-
<i>Lygus maritimus</i> Wagner [NEW]	-	-	63(101)	-	-
<i>Lygus pratensis</i> (Linnaeus) [NEW]	-	62(42)	63(103)	64(43)	-
<i>Lygus punctatus</i> (Zetterstedt) [NEW]	-	-	-	-	65(43)
<i>Lygus rugulipennis</i> Poppius	61(47)	-	63(101)	-	65(49)
<i>Lygus wagneri</i> Remane [NEW]	61(57)	62(45)	63(63)	-	-
<i>Macrolophus rubi</i> Woodroffe [DELETED]	-	-	-	-	-
<i>Macrotylus paykullii</i> (Fallén)	61(2)	62(1)	63(62)	-	-
<i>Macrotylus solitarius</i> (Meyer-Dür)	61(2)	62(15)	63(17)	64(15)	-
<i>Malacocoris chlorizans</i> (Panzer)	61(2)	62(7)	63(2)	64(1)	65(11)
<i>Mecomma ambulans</i> (Fallén)	61(3)	62(1)	63(1)	-	65(11)
<i>Mecomma dispar</i> (Boheman)	61(30)	62(20)	63(5)	64(39)	-
<i>Megacoelum infusum</i> (Herrich-Schaeffer)	61(58)	62(16)	63(2)	64(46)	-
<i>Megaloceroea recticornis</i> (Geoffroy)	61(15)	62(34)	63(17)	64(54)	-
<i>Megalocoleus molliculus</i> (Fallén)	61(2)	62(56)	63(57)	64(35)	-
<i>Megalocoleus tanacetii</i> (Fallén)	61(1)	62(1)	63(17)	-	-
<i>Miris striatus</i> (Linnaeus)	61(1)	62(20)	63(1)	64(2)	-
<i>Monalocoris filicis</i> (Linnaeus)	61(1)	62(6)	63(1)	64(1)	-
<i>Neolygus contaminatus</i> (Fallén)	61(1)	62(6)	63(1)	64(1)	65(11)
<i>Neolygus populi</i> (Leston)	61(88)	-	-	-	-
<i>Neolygus viridis</i> (Fallén)	61(1)	62(6)	63(2)	64(1)	65(1)
<i>Notostira elongata</i> (Geoffroy)	61(1)	-	63(1)	64(1)	65(35)
<i>Oncotylus viridiflavus</i> (Goeze)	-	-	63(83)	-	-
<i>Orthocephalus coriaceus</i> (Fabricius)	-	62(12)	-	-	-
<i>Orthocephalus saltator</i> (Hahn)	61(30)	-	63(17)	-	-
<i>Orthonotus rufifrons</i> (Fallén)	61(2)	62(20)	63(1)	64(2)	-
<i>Orthops basalis</i> (A. Costa) [NEW]	61(60)	-	-	64(59)	-
<i>Orthops campestris</i> (Linnaeus) [NEW]	-	-	63(62)	-	-
<i>Orthops kalmii</i> (Linnaeus) [DELETED]	-	-	-	-	-
<i>Orthotylus adenocarpi</i> (Perris)	-	62(7)	63(58)	-	-
<i>Orthotylus bilineatus</i> (Fallén) [NEW]	61(50)	62(40)	63(43)	-	-
<i>Orthotylus concolor</i> (Kirschbaum) [DELETED]	-	-	-	-	-
<i>Orthotylus ericetorum</i> (Fallén)	61(46)	62(1)	63(1)	-	-
<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	61(50)	62(15)	63(54)	64(29)	-
<i>Orthotylus marginalis</i> Reuter	61(1)	62(7)	63(1)	64(4)	65(11)
<i>Orthotylus moncreaffi</i> (Douglas & Scott)	61(30)	-	-	-	-
<i>Orthotylus nassatus</i> (Fabricius)	-	62(21)	-	-	65(1)
<i>Orthotylus ochrotrichus</i> Fieber [NEW]	61(15)	-	63(1)	64(36)	-
<i>Orthotylus prasinus</i> (Fallén) [NEW]	61(15)	62(20)	63(58)	-	-
<i>Orthotylus rubidus</i> (Puton)	61(78)	-	-	-	-
<i>Orthotylus tenellus</i> (Fallén)	61(58)	62(7)	63(58)	-	-

MIRIDAE (CONTINUED)

<i>Orthotylus virens</i> (Fallén)	-	-	63(77)	64(56)	65(77)
<i>Orthotylus virescens</i> (Douglas & Scott)	61(52)	62(7)	63(44)	-	-
<i>Orthotylus viridinervis</i> (Kirschbaum)	61(2)	62(7)	-	64(15)	65(11)
<i>Pachytomella parallela</i> (Meyer-Dür)	-	-	-	-	65(57)
<i>Pantilius tunicatus</i> (Fabricius)	61(1)	62(6)	63(1)	64(28)	-
<i>Phoenicocoris obscurellus</i> (Fallén)	61(15)	-	-	-	-
<i>Phylus coryli</i> (Linnaeus)	61(2)	62(7)	63(62)	64(39)	65(13)
<i>Phylus melanocephalus</i> (Linnaeus)	61(1)	62(7)	63(1)	64(2)	-
<i>Phytocoris dimidiatus</i> Kirschbaum	61(1)	62(7)	63(1)	64(29)	65(11)
<i>Phytocoris longipennis</i> Flor	61(2)	62(1)	63(1)	64(1)	-
<i>Phytocoris pini</i> Kirschbaum	61(1)	62(6)	63(1)	64(29)	65(11)
<i>Phytocoris populi</i> (Linnaeus)	-	62(21)	63(1)	64(29)	-
<i>Phytocoris tiliae</i> (Fabricius)	61(1)	62(6)	63(1)	-	65(11)
<i>Phytocoris ulmi</i> (Linnaeus)	61(1)	62(6)	63(1)	64(1)	65(11)
<i>Phytocoris varipes</i> Boheman	61(15)	62(6)	63(1)	64(52)	-
<i>Pilophorus perplexus</i> Douglas & Scott	-	-	63(87)	-	-
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	61(2)	62(1)	63(2)	64(1)	65(49)
<i>Pinalitus rubricatus</i> (Fallén)	61(2)	62(1)	63(13)	64(15)	65(14)
<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	61(1)	62(1)	63(1)	64(1)	65(11)
<i>Plagiognathus arbustorum</i> (Fabricius)	61(1)	62(1)	63(1)	64(5)	65(11)
<i>Plagiognathus chrysanthemi</i> (Wolff)	61(2)	62(6)	63(44)	-	65(1)
<i>Platycranus bicolor</i> (Douglas & Scott)	61(66)	-	63(62)	-	-
<i>Plesiodema pinetella</i> (Zetterstedt)	61(15)	62(15)	63(62)	-	-
<i>Polymerus nigrita</i> (Fallén)	61(30)	62(15)	63(44)	-	-
<i>Polymerus palustris</i> (Reuter)	61(50)	-	63(67)	64(31)	-
<i>Polymerus unifasciatus</i> (Fabricius)	61(15)	62(58)	63(1)	64(58)	-
<i>Psallodema fieberi</i> (Fieber)	-	-	63(79)	-	-
<i>Psallus ambiguus</i> (Fallén)	61(1)	62(6)	63(1)	64(1)	-
<i>Psallus falleni</i> Reuter	61(1)	62(6)	63(1)	64(2)	-
<i>Psallus flavellus</i> Stichel	61(1)	62(9)	63(62)	-	-
<i>Psallus haematodes</i> (Gmelin)	61(2)	62(6)	63(2)	64(1)	-
<i>Psallus lepidus</i> Fieber	-	62(20)	63(1)	64(39)	-
<i>Psallus luridus</i> Reuter	61(66)	-	63(56)	64(57)	-
<i>Psallus mollis</i> (Mulsant & Rey)	-	-	63(79)	-	-
<i>Psallus montanus</i> Josifov	-	-	63(84)	-	-
<i>Psallus perrisi</i> (Mulsant & Rey) [NEW]	61(56)	62(57)	63(57)	64(37)	-
<i>Psallus salicis</i> (Kirschbaum)	61(2)	-	63(2)	-	65(11)
<i>Psallus varians</i> (Herrich-Schaeffer)	61(1)	62(1)	63(1)	64(2)	65(1)
<i>Psallus wagneri</i> Ossiannilsson [NEW]	-	-	63(57)	-	-
<i>Pseudoloxops coccineus</i> (Meyer-Dür) [NEW]	-	-	63(62)	-	-
<i>Rhabdomiris striatellus</i> (Fabricius)	61(1)	62(6)	63(17)	-	-
<i>Salicarus roseri</i> (Herrich-Schaeffer)	-	-	63(52)	64(54)	-
<i>Stenodema calcarata</i> (Fallén)	61(1)	62(1)	63(1)	64(2)	65(56)
<i>Stenodema holsata</i> (Fabricius)	61(1)	62(1)	63(1)	64(1)	65(1)
<i>Stenodema laevigata</i> (Linnaeus)	61(26)	62(1)	63(1)	64(24)	65(49)
<i>Stenodema trispinosa</i> Reuter	61(46)	-	63(54)	-	-
<i>Stenotus binotatus</i> (Fabricius)	61(1)	-	63(44)	64(35)	65(58)
<i>Sthenarus rotermundi</i> (Scholtz) [NEW]	-	-	-	64(37)	-
<i>Strongylocoris leucocephalus</i> (Linnaeus)	61(1)	62(41)	63(1)	64(24)	-
<i>Teratocoris antennatus</i> (Boheman) [NEW]	-	-	63(50)	-	-
<i>Teratocoris saundersi</i> Douglas & Scott	61(30)	62(2)	63(2)	64(1)	65(11)
<i>Teratocoris viridis</i> Douglas & Scott	-	-	63(43)	64(32)	65(19)
<i>Tinicephalus hortulanus</i> (Meyer-Dür)	61(50)	62(50)	63(44)	64(32)	65(53)
<i>Trigonotylus caelestialium</i> (Kirkaldy)	61(76)	-	63(79)	-	-

MIRIDAE (CONTINUED)

<i>Trigonotylus psammaecolor</i> Reuter	61(67)	-	-	-	-
<i>Tupiocoris rhododendri</i> (Dolling) [NEW]	-	-	63(62)	-	-
<i>Tytthus pygmaeus</i> (Zetterstedt)	-	62(16)	-	-	-

CERATOCOMBIDAE

<i>Ceratocombus coleoptratus</i> (Zetterstedt)	61(1)	62(51)	-	64(42)	-
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DIPSOCORIDAE

<i>Cryptostemma alienum</i> Herrich-Schaeffer	-	62(1)	-	64(15)	65(15)
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SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	61(1)	62(1)	63(1)	64(1)	-
<i>Chartoscirta cocksii</i> (Curtis)	-	62(1)	63(54)	64(50)	65(53)
<i>Chartoscirta elegantula</i> (Fallén)	-	-	63(54)	-	-
<i>Macrosaldula scotica</i> (Curtis)	-	62(1)	63(36)	64(55)	65(1)
<i>Micracanthia marginalis</i> (Fallén)	-	-	63(54)	-	-
<i>Salda littoralis</i> (Linnaeus)	61(1)	62(1)	-	64(1)	-
<i>Salda morio</i> Zetterstedt	-	-	63(41)	64(35)	65(56)
<i>Salda muelleri</i> (Gmelin)	-	62(64)	63(44)	-	-
<i>Saldula c-album</i> (Fieber)	61(2)	62(6)	63(1)	64(2)	65(1)
<i>Saldula orthochila</i> (Fieber)	61(6)	62(6)	63(1)	64(27)	-
<i>Saldula pallipes</i> (Fabricius)	-	-	63(54)	64(54)	-
<i>Saldula palustris</i> (Douglas)	61(54)	-	-	-	-
<i>Saldula pilosella</i> (Thomson)	61(30)	-	63(54)	64(1)	-
<i>Saldula saltatoria</i> (Linnaeus)	61(1)	62(6)	63(10)	64(1)	65(1)
<i>Teloleuca pellucens</i> (Fabricius)	-	62(56)	63(54)	64(65)	-

MESOVELIIDAE

<i>Mesovelia furcata</i> Mulsant & Rey	61(8)	-	63(8)	-	-
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HEBRIDAE

<i>Hebrus ruficeps</i> Thomson	61(8)	62(8)	-	64(8)	65(8)
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HYDROMETRIDAE

<i>Hydrometra stagnorum</i> (Linnaeus)	61(8)	62(8)	63(8)	64(8)	65(8)
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VELIIDAE

<i>Microvelia reticulata</i> (Burmeister)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Velia caprai</i> Tamanini	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Velia saulii</i> Tamanini	-	62(29)	63(62)	64(8)	65(8)

GERRIDAE

<i>Aquarius najas</i> (De Geer)	-	-	63(1)	64(13)	-
<i>Gerris argentatus</i> Schummel	61(92)	62(1)	63(8)	64(6)	-
<i>Gerris costae</i> (Herrich-Schaeffer)	-	62(8)	63(8)	64(8)	65(8)
<i>Gerris gibbifer</i> Schummel	-	62(8)	63(8)	64(8)	-
<i>Gerris lacustris</i> (Linnaeus)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Gerris lateralis</i> Schummel	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Gerris odontogaster</i> (Zetterstedt)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Gerris thoracicus</i> Schummel	61(8)	62(8)	63(8)	64(8)	65(8)

NEPIDAE

<i>Nepa cinerea</i> Linnaeus	61(8)	62(8)	63(8)	64(8)	65(6)
<i>Ranatra linearis</i> (Linnaeus)	61(92)	62(94)	63(79)	64(97)	-

NAUCORIDAE

<i>Ilyocoris cimicoides</i> (Linnaeus)	61(8)	62(8)	63(8)	64(8)	-
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APHELOCHEIRIDAE

<i>Aphelocheirus aestivalis</i> (Fabricius)	61(8)	62(8)	-	64(8)	-
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NOTONECTIDAE

<i>Notonecta glauca</i> Linnaeus	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Notonecta maculata</i> Fabricius	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Notonecta obliqua</i> Thunberg	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Notonecta viridis</i> Delcourt	61(8)	62(8)	63(8)	64(8)	-

PLEIDAE

<i>Plea minutissima</i> Leach	61(8)	62(8)	63(8)	64(8)	65(8)
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CORIXIDAE

<i>Arctocoris carinata</i> (C.R. Sahlberg)	-	-	-	64(8)	65(8)
<i>Arctocoris germari</i> (Fieber)	61(8)	62(23)	63(8)	64(8)	65(8)
<i>Callicorixa praeusta</i> (Fieber)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Callicorixa wollastoni</i> (Douglas & Scott)	-	62(22)	63(8)	64(8)	65(8)
<i>Corixa affinis</i> Leach	61(8)	-	-	64(15)	-
<i>Corixa dentipes</i> Thomson	61(8)	62(23)	63(8)	64(8)	65(8)
<i>Corixa panzeri</i> Fieber	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Corixa punctata</i> (Illiger)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Cymatia bondsdorffii</i> (C.R. Sahlberg)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Cymatia coleoprata</i> (Fabricius)	61(33)	-	63(8)	64(33)	-
<i>Glaenocoris cavifrons</i> (Thomson) [DELETED]	-	-	-	-	-
<i>Glaenocoris propinqua</i> (Fieber)	-	-	-	64(93)	-
<i>Hesperocoris castanea</i> (Thomson)	-	62(8)	63(8)	64(8)	65(8)
<i>Hesperocoris linnaei</i> (Fieber)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Hesperocoris moesta</i> (Fieber)	-	62(20)	-	-	-
<i>Hesperocoris sahlbergi</i> (Fieber)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Micronecta poweri</i> (Douglas & Scott)	-	62(20)	63(8)	64(8)	65(8)
<i>Micronecta scholtzi</i> (Fieber)	61(8)	62(95)	63(8)	64(93)	-
<i>Paracoris concinna</i> (Fieber)	61(8)	62(23)	63(8)	64(8)	65(8)
<i>Sigara distincta</i> (Fieber)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Sigara dorsalis</i> (Leach)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Sigara falleni</i> (Fieber)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Sigara fossarum</i> (Leach)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Sigara lateralis</i> (Leach)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Sigara limitata</i> (Fieber)	61(8)	62(8)	63(8)	64(8)	65(96)
<i>Sigara nigrolineata</i> (Fieber)	61(8)	62(8)	63(8)	64(8)	65(8)
<i>Sigara scotti</i> (Douglas & Scott)	-	62(8)	63(8)	-	65(54)
<i>Sigara selecta</i> (Fieber)	61(8)	-	-	-	-
<i>Sigara semistriata</i> (Fieber)	61(8)	-	63(8)	64(8)	65(96)
<i>Sigara stagnalis</i> (Leach)	61(8)	62(8)	63(8)	64(29)	-
<i>Sigara venusta</i> (Douglas & Scott)	61(8)	62(8)	63(8)	64(8)	65(8)

In addition to the above, I have found records for the following species for VC57 which are new to Ryan's list for Derbyshire (reference number in brackets): *Chorosoma schillingii* (Schilling) (Rhaphididae) (63); *Closterotomus trivialis* (A. Costa) (Miridae) (63); and *Charagochilus gyllenhalii* (Fallén) (Miridae) (83).

TABLE 1. The references relating to the numbers in the list of divided records.

(1) Fordham (1921)	(53) Flint (1976)
(2) Brown (1923b)	(54) Crossley (1977)
(3) Brown (1923a)	(55) Ely (1979)
(4) Falconer (1922)	(56) Crossley (1979)
(5) Brown (1924)	(57) Crossley (1981)
(6) Walsh (1924)	(58) Crossley (1984)
(7) Brown (1925a)	(59) Ely (1986a)
(8) Huxley (2003)	(60) Ely (1986b)
(9) Brown (1925b)	(61) Ely (1986c)
(10) Brown (1926)	(62) Coldwell (1999)
(11) Brown (1927a)	(63) Flanagan (2011c)
(12) Brown (1927b)	(64) Scudder (1958)
(13) Brown (1928)	(65) Crossley (1970a)
(14) Brown (1929)	(66) Crossley (1972)
(15) Brown (1933)	(67) Crossley (1976a)
(16) Brown (1936)	(68) Horsfield (1981)
(17) Brown (1938)	(69) Dolling (1997)
(18) Britten (1938)	(70) Dolling (1999)
(19) Brown (1939)	(71) Whitehead (2005)
(20) Brown (1941)	(72) Flanagan (2011a)
(21) Brown (1942)	(73) Hart (1985)
(22) Brown (1943)	(74) Eyre <i>et al.</i> (2004)
(23) Brown (1944)	(75) Foster (2013)
(24) Brown (1946)	(76) Crossley (1993)
(25) Brown (1950)	(77) Nau (1990)
(26) Hincks (1951)	(78) Dolling (2003)
(27) Flint (1952)	(79) Ely (2006)
(28) Flint (1953)	(80) Dolling (2007)
(29) Flint (1954)	(81) Nau (2009)
(30) Woodroffe (1954)	(82) Flanagan (2009a)
(31) Flint (1955)	(83) Flanagan (2009b)
(32) Flint (1957)	(84) Flanagan & Nau (2010)
(33) Flint (1958)	(85) Brooke & Nau (2010)
(34) Flint (1959)	(86) Flanagan (2010)
(35) Flint (1960)	(87) Flanagan (2011b)
(36) Flint (1961)	(88) Dolling (2011)
(37) Flint (1962)	(89) Bantock (2013)
(38) Flint (1963)	(90) Dolling (2014)
(39) Flint (1964)	(91) Bantock (2014b)
(40) Flint (1965)	(92) Hammond (2004)
(41) Flint (1966)	(93) Hammond (2006)
(42) Flint (1967)	(94) Brooke (2007)
(43) Flint (1968)	(95) Hammond (2008a)
(44) Flint (1969)	(96) Hammond (2008b)
(45) Crossley (1969)	(97) Jobe (2011)
(46) Flint (1970)	(98) Bantock (2014a)
(47) Crossley (1970b)	(99) Flanagan (2015a)
(48) Crossley (1970c)	(100) Bantock (2015)
(49) Crossley (1971)	(101) Flanagan (2015b)
(50) Flint (1972)	(102) Flanagan (2015c)
(51) Crossley (1973)	(103) Foster (2015)
(52) Crossley (1976b)	(104) Flanagan (2015)

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***DICTYLA CONVERGENS* (HERRICH-SCHAEFFER) (HEMIPTERA: TINGIDAE)
IS NOT A FIRST INSTAR MINER**

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Müller (1865), citing the authority Menzel, who in turn cited Bremi, reported that the first instar nymphs of the above species mine their host plant, and expressed the hope that someone might verify Bremi's observation and give further details of this singular habit among the Hemiptera.

I am not aware of anyone publishing a response to this invitation and, although a little sceptical, thought it would be fun to look into the matter. Alas, I had only ever encountered this lacebug in one's and two's, and not in the numbers required to establish a culture of sufficient size to be conclusive. However, on 21 May 2015 I found a large stand of the host plant, Water Forget-me-not, *Myosotis scorpioides* L. (Boraginaceae), in an area of recovering water meadow, from which I had first used 'mud sweeping' to capture large numbers of shore bugs (Saldidae) in the previous year (Ryan, 2015). Sweeping produced several dozen adults, which were incubated at home with a sprig of host plant.

Over the next five days, several hundred, black, bottle-shaped eggs were laid, inserted into the stems, leaves and flower heads of the host plant tissue (Figures 2 & 3). These were all oriented cap-out, suggesting that emergence would not be into the plant tissue, but out onto the surface of the host plant, as is conventional. Once the first instar nymphs started to appear, the hatched eggs had hinged-open caps, showing that emergence had indeed been through this end of the egg. On one occasion, I watched the birth process, as a pale, straw-yellow nymph forced its way into the outside world.

Given the manner of its hatching from the egg, the only way the first instar of this species could now mine its host plant is if the animal could cut into the plant tissue and insert itself, which would presumably require biting mouthparts and a tough exoskeleton. Needless to say, none of the delicate nymphs were seen doing this, and there were no entrance holes or mining animals observed. The report of mining in this species would therefore appear to be false. However, there was a clue as to how this notion may have arisen. Some of the eggs laid in the leaves were positioned along the edge, oriented in the plane of the leaf and clearly visible from both sides (Figure 4). This gives the impression of mining, even though the insect does not emerge from the egg into the plant tissue.

I could not resist the temptation of a further experiment, given that I had a large population of nymphs in my possession. With the sprig of host plant in need of renewal, I replaced it with some of the related Field Forget-me-not, *Myosotis arvensis* (L.) Hill, from the unkempt portion of my garden (Ryan, 2013). All the nymphs promptly died, suggesting that the specific host plant association of this bug is not incidental to a habitat association. The animal is adapted to the host plant itself.

References

- Ryan, R. P. 2013. *Legnotus limbosus* (Geoffroy) (Hemiptera: Cydnidae) in my garden. *British Journal of Entomology and Natural History* **26**: 95-97.
- Ryan, R. P. 2015. A shore bug bonanza in Oxfordshire and *Saldula opacula* (Zetterstedt) (Hemiptera: Saldidae) new to the county. *British Journal of Entomology and Natural History* **28**: 57-58.
- Müller, A. 1865. *Monanthia humuli*, Fieber; a mining Hemipteron. *Entomologist's Monthly Magazine* **2**: 118.



FIGURE 1. Adult and late instar nymph of *Dictyla convergens*.



FIGURE 2. Eggs inserted into the stem and flower heads of the host plant.



FIGURE 3. Eggs inserted into the leaves of the host plant.



FIGURE 4. Eggs inserted into the leaf edges of the host plant.

THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR ESSEX INTO VICE-COUNTY LISTS FOR VC18 AND VC19

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Introduction

The list of Hemiptera-Heteroptera for Essex in Ryan (2014) was compiled from that of Massee (1955) with additional records from the national entomological literature published in the six decades between these two papers. Ryan did not attempt to divide the county list into separate lists for the two constituent vice-counties, which are the basis of modern recording. The present paper addresses this shortcoming, providing separate lists for Watsonian South Essex (VC18) and Watsonian North Essex (VC19).

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a & 2016b). The resulting vice-county lists include 662 records, compared with 356 for the original Essex list. The list for Essex as a whole has lengthened by 36, the increase arising from 61 species added to the list and 25 deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The lists for the two vice-counties, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Essex are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking some of the records relate to the references from which they were derived, as indicated in Table 1. The unmarked records are from the tetrad-plotted distribution maps published on the Essex Field Club website (<http://www.essexfieldclub.org.uk>, accessed on 28 September 2016).

The divided records

ARADIDAE

<i>Aneurus avenius</i> (Dufour) [NEW]	-	VC18
<i>Aneurus laevis</i> (Fabricius)	-	VC18 (26)
<i>Aradus depressus</i> (Fabricius)	-	VC18

ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus)	VC19	VC18
<i>Cyphostethus tristriatus</i> (Fabricius)	VC19	VC18
<i>Elasmotethus interstinctus</i> (Linnaeus)	VC19	VC18
<i>Elasmucha grisea</i> (Linnaeus)	VC19	VC18

CYDNIDAE

<i>Adomerus biguttatus</i> (Linnaeus)	-	VC18
<i>Legnotus limbosus</i> (Geoffroy)	VC19	VC18
<i>Legnotus picipes</i> (Fallén) [DELETED]	-	-
<i>Sehirus luctuosus</i> Mulsant & Rey	VC19	VC18
<i>Tritomegas bicolor</i> (Linnaeus)	VC19	VC18

THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus)	-	VC18
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SCUTELLERIDAE

<i>Eurygaster maura</i> (Linnaeus)	-	VC18
<i>Eurygaster testudinaria</i> (Geoffroy) [NEW]	VC19	VC18

PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	VC19	VC18
<i>Dolycoris baccarum</i> (Linnaeus)	VC19	VC18
<i>Eurydema dominulus</i> (Scopoli) [NEW]	-	VC18
<i>Eurydema oleracea</i> (Linnaeus)	VC19	VC18
<i>Eysarcoris venustissimus</i> (Schrank)	VC19	VC18
<i>Neottiglossa pusilla</i> (Gmelin)	VC19	VC18
<i>Nezara viridula</i> (Linnaeus)	-	VC18
<i>Palomena prasina</i> (Linnaeus)	VC19	VC18
<i>Pentatoma rufipes</i> (Linnaeus)	VC19	VC18
<i>Picromerus bidens</i> (Linnaeus)	VC19	VC18
<i>Piezodorus lituratus</i> (Fabricius)	VC19	VC18
<i>Podops inunctus</i> (Fabricius)	VC19	VC18
<i>Rhacognathus punctatus</i> (Linnaeus)	-	VC18 (14)
<i>Rhaphigaster nebulosa</i> (Poda)	-	VC18
<i>Sciocoris cursitans</i> (Fabricius)	-	VC18
<i>Troilus luridus</i> (Fabricius)	VC19	VC18
<i>Zicrona caerulea</i> (Linnaeus)	VC19	VC18

COREIDAE

<i>Arenocoris fallenii</i> (Schilling)	VC19	VC18
<i>Bathysolen nubilus</i> (Fallén)	VC19	VC18
<i>Ceraleptus lividus</i> Stein	VC19	VC18
<i>Coreus marginatus</i> (Linnaeus)	VC19	VC18
<i>Coriomeris denticulatus</i> (Scopoli)	VC19	VC18
<i>Gonocerus acuteangulatus</i> (Goeze)	VC19	VC18
<i>Leptoglossus occidentalis</i> Heidemann	VC19	VC18
<i>Spathocera dalmanii</i> (Schilling)	VC19	-
<i>Syromastus rhombeus</i> (Linnaeus)	VC19	VC18

ALYDIDAE

<i>Alydus calcaratus</i> (Linnaeus)	VC19	VC18
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RHOPALIDAE

<i>Brachycarenum tigrinus</i> (Schilling)	-	VC18
<i>Chorosoma schillingii</i> (Schilling)	VC19	VC18
<i>Corizus hyoscyami</i> (Linnaeus)	VC19	VC18
<i>Liorhyssus hyalinus</i> (Fabricius)	VC19	VC18
<i>Myrmus miriformis</i> (Fallén)	VC19	VC18
<i>Rhopalus parumpunctatus</i> Schilling [NEW]	VC19	-
<i>Rhopalus subrufus</i> (Gmelin)	VC19	VC18
<i>Stictopleurus abutilon</i> (Rossi)	VC19	VC18
<i>Stictopleurus punctatonevrosus</i> (Goeze)	VC19	VC18

STENOCEPHALIDAE

<i>Dicranocephalus agilis</i> (Scopoli) [DELETED]	-	-
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LYGAEIDAE

<i>Acompus pallipes</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Acompus rufipes</i> (Wolff)	VC19 (27)	-
<i>Aphanus rolandri</i> (Linnaeus)	VC19	VC18
<i>Arocatus longiceps</i> Stål [NEW]	-	VC18
<i>Beosus maritimus</i> (Scopoli) [DELETED]	-	-
<i>Chilacis typhae</i> (Perris)	VC19	VC18
<i>Cymus clavicularis</i> (Fallén)	VC19	VC18

LYGAEIDAE (CONTINUED)

<i>Cymus glandicolor</i> Hahn	VC19	VC18
<i>Cymus melanocephalus</i> Fieber [NEW]	VC19	VC18
<i>Drymus brunneus</i> (R.F. Sahlberg)	VC19	VC18
<i>Drymus latus</i> Douglas & Scott	-	VC18
<i>Drymus pumilio</i> Puton [NEW]	VC19 (27)	VC18
<i>Drymus ryeii</i> Douglas & Scott [NEW]	-	VC18
<i>Drymus sylvaticus</i> (Fabricius)	VC19	VC18
<i>Emblethis denticollis</i> Horváth	-	VC18
<i>Eremocoris fenestratus</i> (Herrich-Schaeffer) [NEW]	-	VC18
<i>Eremocoris podagricus</i> (Fabricius)	VC19	VC18
<i>Gastrodes grossipes</i> (De Geer)	VC19 (11)	VC18
<i>Graptopeltus lynceus</i> (Fabricius)	VC19	-
<i>Henestaris halophilus</i> (Burmeister)	VC19	VC18
<i>Henestaris laticeps</i> (Curtis) [DELETED]	-	-
<i>Heterogaster urticae</i> (Fabricius)	VC19	VC18
<i>Ischnodemus sabuleti</i> (Fallén)	VC19	VC18
<i>Kleidocerys ericae</i> (Horváth)	VC19	-
<i>Kleidocerys resedae</i> (Panzer)	VC19	VC18
<i>Lamproplax picea</i> (Flor)	-	VC18 (15)
<i>Lasiosomus enervis</i> (Herrich-Schaeffer) [NEW]	-	VC18
<i>Megalonotus antennatus</i> (Schilling)	VC19	VC18
<i>Megalonotus chiragra</i> (Fabricius) [NEW]	VC19	VC18
<i>Megalonotus dilatatus</i> (Herrich-Schaeffer)	VC19	VC18
<i>Megalonotus emarginatus</i> (Rey)	VC19 (2)	VC18
<i>Megalonotus praetextatus</i> (Herrich-Schaeffer)	VC19	VC18
<i>Megalonotus sabulicola</i> (Thomson) [NEW]	-	VC18
<i>Metopoplax ditomoides</i> (A. Costa)	-	VC18
<i>Metopoplax fuscinervis</i> Stål	-	VC18 (6)
<i>Nysius ericae</i> (Schilling)	VC19 (10)	VC18
<i>Nysius graminicola</i> (Kolenati) [NEW]	-	VC18
<i>Nysius huttoni</i> F.B. White	VC19	VC18
<i>Nysius senecionis</i> (Schilling)	VC19	VC18
<i>Nysius thymi</i> (Wolff)	VC19 (10)	VC18
<i>Orsillus depressus</i> (Mulsant & Rey)	-	VC18
<i>Peritrechus geniculatus</i> (Hahn)	VC19	VC18
<i>Peritrechus lundii</i> (Gmelin)	VC19	VC18
<i>Peritrechus nubilus</i> (Fallén)	VC19	VC18
<i>Plinthisus brevipennis</i> (Latreille)	VC19	VC18
<i>Raglius alboacuminatus</i> (Goeze)	VC19	VC18
<i>Rhyparochromus pini</i> (Linnaeus)	-	VC18 (15)
<i>Rhyparochromus vulgaris</i> (Schilling)	-	VC18
<i>Scolopostethus affinis</i> (Schilling)	VC19	VC18
<i>Scolopostethus decoratus</i> (Hahn)	VC19	VC18
<i>Scolopostethus grandis</i> Horváth	-	VC18
<i>Scolopostethus pictus</i> (Schilling)	-	VC18
<i>Scolopostethus puberulus</i> Horváth [NEW]	VC19	VC18
<i>Scolopostethus thomsoni</i> Reuter	VC19	VC18
<i>Stygnocoris fuliginus</i> (Geoffroy)	VC19	VC18
<i>Stygnocoris rusticus</i> (Fallén)	-	VC18
<i>Stygnocoris sabulosus</i> (Schilling)	VC19	VC18
<i>Taphropeltus contractus</i> (Herrich-Schaeffer)	VC19	VC18
<i>Taphropeltus hamulatus</i> (Thomson) [NEW]	-	VC18
<i>Trapezonotus arenarius</i> (Linnaeus) [NEW]	-	VC18
<i>Trapezonotus desertus</i> Seidenstücker [NEW]	VC19	VC18

LYGAEIDAE (CONTINUED)

<i>Trapezonotus dispar</i> Stål [NEW]	VC19	VC18
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BERYTIDAE

<i>Berytinus crassipes</i> (Herrich-Schaeffer)	-	VC18
<i>Berytinus hirticornis</i> (Brullé)	VC19	VC18
<i>Berytinus minor</i> (Herrich-Schaeffer)	VC19	VC18
<i>Berytinus montivagus</i> (Meyer-Dür)	-	VC18
<i>Berytinus signoreti</i> (Fieber)	-	VC18
<i>Gampsocoris punctipes</i> (Germar) [DELETED]	-	-
<i>Metatropis rufescens</i> (Herrich-Schaeffer)	VC19	-
<i>Neides tipularius</i> (Linnaeus)	VC19	VC18

PIESMATIDAE

<i>Parapiesma quadratum</i> (Fieber)	VC19 (11)	VC18 (16)
<i>Piesma maculatum</i> (Laporte)	VC19	VC18

TINGIDAE

<i>Acalypta parvula</i> (Fallén)	VC19	VC18
<i>Agramma laetum</i> (Fallén)	-	VC18
<i>Campylosteira verna</i> (Fallén) [DELETED]	-	-
<i>Derephysia foliacea</i> (Fallén)	VC19	VC18
<i>Dictyla convergens</i> (Herrich-Schaeffer)	VC19	VC18
<i>Dictyonota fuliginosa</i> A. Costa	-	VC18
<i>Dictyonota strichnocera</i> Fieber	VC19	VC18
<i>Kalama tricornis</i> (Schränk)	-	VC18
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer) [NEW]	VC19	VC18
<i>Stephanitis rhododendri</i> Horváth	-	VC18 (16)
<i>Stephanitis takeyai</i> Drake & Maa [NEW]	VC19	VC18
<i>Tingis ampliata</i> (Herrich-Schaeffer)	VC19	VC18
<i>Tingis angustata</i> (Herrich-Schaeffer) [DELETED]	-	-
<i>Tingis cardui</i> (Linnaeus)	VC19	VC18
<i>Tingis reticulata</i> Herrich-Schaeffer	-	VC18

REDUVIIDAE

<i>Empicoris culiciformis</i> (De Geer)	-	VC18
<i>Empicoris vagabundus</i> (Linnaeus)	-	VC18
<i>Reduvius personatus</i> (Linnaeus)	-	VC18

NABIDAE

<i>Himacerus apterus</i> (Fabricius)	VC19	VC18
<i>Himacerus boops</i> (Schjødte)	VC19 (8)	VC18
<i>Himacerus major</i> (A. Costa)	VC19	VC18
<i>Himacerus mirmicoides</i> (O. Costa)	VC19	VC18
<i>Nabis ericetorum</i> Scholtz	VC19	VC18 (16)
<i>Nabis fesus</i> (Linnaeus)	VC19	VC18
<i>Nabis flavomarginatus</i> Scholtz	VC19	VC18
<i>Nabis limbatus</i> Dahlbom	VC19	VC18
<i>Nabis lineatus</i> Dahlbom	VC19	VC18
<i>Nabis rugosus</i> (Linnaeus)	VC19	VC18

ANTHOCORIDAE

<i>Acompocoris pygmaeus</i> (Fallén)	-	VC18
<i>Anthocoris confusus</i> Reuter	VC19	VC18
<i>Anthocoris gallarumulmi</i> (De Geer)	-	VC18

ANTHOCORIDAE (CONTINUED)

<i>Anthocoris limbatus</i> Fieber [NEW]	-	VC18
<i>Anthocoris nemoralis</i> (Fabricius)	VC19	VC18
<i>Anthocoris nemorum</i> (Linnaeus)	VC19	VC18
<i>Anthocoris sarothamni</i> Douglas & Scott	VC19	VC18
<i>Anthocoris simulans</i> Reuter	VC19 (11)	VC18
<i>Buchananiella continua</i> (F.B. White) [NEW]	VC19	VC18
<i>Cardiastethus fasciiventris</i> (Garbiglietti) [NEW]	VC19	VC18
<i>Dufouriellus ater</i> (Dufour)	-	VC18 (17)
<i>Lyctocoris campestris</i> (Fabricius)	-	VC18
<i>Orius laevigatus</i> (Fieber) [NEW]	VC19	VC18
<i>Orius laticollis</i> (Reuter)	VC19	VC18
<i>Orius majusculus</i> (Reuter)	VC19	VC18
<i>Orius niger</i> (Wolff)	VC19	VC18
<i>Orius vicinus</i> (Ribaut)	VC19	VC18
<i>Temnostethus pusillus</i> (Herrich-Schaeffer)	VC19 (9)	VC18
<i>Xylocoris cursitans</i> (Fallén)	VC19	VC18 (17)
<i>Xylocoris galactinus</i> (Fieber)	VC19 (17)	VC18 (17)

CIMICIDAE

<i>Cimex columbarius</i> Jenyns [DELETED]	-	-
<i>Cimex lectularius</i> Linnaeus	-	VC18
<i>Cimex pipistrelli</i> Jenyns	-	VC18
<i>Oeciacus hirundinis</i> (Lamarck)	VC19 (3)	-

MICROPHYSIDAE

<i>Loricula coleoptrata</i> (Fallén) [DELETED]	-	-
<i>Loricula distinguenda</i> (Reuter)	-	VC18 (17)
<i>Loricula elegantula</i> (Baerensprung)	VC19	VC18
<i>Loricula exilis</i> (Fallén) [DELETED]	-	-
<i>Loricula pselaphiformis</i> Curtis	-	VC18 (17)

MIRIDAE

<i>Acetropis gimmerthalii</i> (Flor) [NEW]	VC19	VC18
<i>Adelphocoris lineolatus</i> (Goeze)	VC19	VC18
<i>Agnocoris reclairei</i> (Wagner) [NEW]	-	VC18 (27)
<i>Alloeotomus gothicus</i> (Fallén) [NEW]	VC19	-
<i>Amblytylus delicatus</i> (Perris) [NEW]	-	VC18
<i>Amblytylus nasutus</i> (Kirschbaum)	VC19	VC18
<i>Apolygus lucorum</i> (Meyer-Dür)	-	VC18 (20)
<i>Apolygus spinolae</i> (Meyer-Dür)	VC19	VC18
<i>Asciodema obsoleta</i> (Fieber)	-	VC18
<i>Atractotomus magnicornis</i> (Fallén) [NEW]	-	VC18 (19)
<i>Atractotomus mali</i> (Meyer-Dür)	VC19	VC18
<i>Atractotomus parvulus</i> Reuter	VC19 (11)	VC18
<i>Blepharidopterus angulatus</i> (Fallén)	VC19	VC18
<i>Blepharidopterus diaphanus</i> (Kirschbaum)	-	VC18
<i>Brachyarthrurum limitatum</i> Fieber	-	VC18 (18)
<i>Calocoris roseomaculatus</i> (De Geer) [DELETED]	-	-
<i>Camptozygum aequale</i> (Villers) [DELETED]	-	-
<i>Campylomma annulicorne</i> (Signoret) [NEW]	VC19	VC18
<i>Campylomma verbasci</i> (Meyer-Dür)	-	VC18
<i>Campyloneura virgula</i> (Herrich-Schaeffer)	VC19	VC18
<i>Capsodes flavomarginatus</i> (Donovan)	-	VC18 (22)
<i>Capsodes gothicus</i> (Linnaeus)	-	VC18 (22)

MIRIDAE (CONTINUED)

<i>Capsus ater</i> (Linnaeus)	VC19	VC18
<i>Charagochilus gyllenhalii</i> (Fallén)	-	VC18
<i>Chlamydatus evanescens</i> (Boheman) [NEW]	VC19	VC18
<i>Chlamydatus pullus</i> (Reuter)	-	VC18
<i>Chlamydatus saltitans</i> (Fallén) [NEW]	VC19	VC18
<i>Chlamydatus wilkinsoni</i> (Douglas & Scott) [NEW]	-	VC18
<i>Closterotomus fulvomaculatus</i> (De Geer)	VC19	VC18
<i>Closterotomus norvegicus</i> (Gmelin)	VC19	VC18
<i>Compsidolon salicellum</i> (Herrich-Schaeffer)	VC19	VC18
<i>Conostethus griseus</i> Douglas & Scott	-	VC18
<i>Conostethus roseus</i> (Fallén) [DELETED]	-	-
<i>Cyllecoris histrionius</i> (Linnaeus)	VC19	VC18
<i>Cyrtorhinus caricis</i> (Fallén)	VC19	VC18
<i>Deraeocoris flavilinea</i> (A. Costa)	VC19	VC18
<i>Deraeocoris lutescens</i> (Schilling)	VC19	VC18
<i>Deraeocoris olivaceus</i> (Fabricius)	VC19	VC18
<i>Deraeocoris ruber</i> (Linnaeus)	VC19	VC18
<i>Deraeocoris scutellaris</i> (Fabricius)	-	VC18
<i>Dichrooscytus gustavi</i> Josifov [NEW]	VC19	VC18
<i>Dichrooscytus rufipennis</i> (Fallén) [DELETED]	-	-
<i>Dicyphus annulatus</i> (Wolff)	VC19	VC18
<i>Dicyphus constrictus</i> (Boheman)	-	VC18
<i>Dicyphus epilobii</i> Reuter	VC19	VC18
<i>Dicyphus errans</i> (Wolff)	VC19	VC18
<i>Dicyphus globulifer</i> (Fallén)	VC19	VC18
<i>Dicyphus pallicornis</i> (Fieber) [DELETED]	-	-
<i>Dicyphus stachydis</i> J. Sahlberg	-	VC18
<i>Dicyphus tamaninii</i> Wagner [NEW]	-	VC18 (13)
<i>Dryophilocoris flavoquadrimaculatus</i> (De Geer)	VC19	VC18
<i>Europiella artemisiae</i> (Becker) [NEW]	VC19	VC18
<i>Europiella decolor</i> (Uhler) [NEW]	-	VC18
<i>Fieberocapsus flaveolus</i> (Reuter)	-	VC18
<i>Globiceps flavomaculatus</i> (Fabricius) [DELETED]	-	-
<i>Globiceps fulvicollis</i> Jakovlev [DELETED]	-	-
<i>Grypocoris stysi</i> (Wagner)	VC19	VC18
<i>Halticus apterus</i> (Linnaeus)	-	VC18 (19)
<i>Halticus luteicollis</i> (Panzer) [DELETED]	-	-
<i>Harpocera thoracica</i> (Fallén)	VC19	VC18
<i>Heterocordylus genistae</i> (Scopoli)	-	VC18 (19)
<i>Heterocordylus tibialis</i> (Hahn)	VC19	VC18
<i>Heterotoma planicornis</i> (Pallas)	VC19	VC18
<i>Hoplomachus thunbergii</i> (Fallén)	-	VC18 (19)
<i>Leptopterna dolabrata</i> (Linnaeus)	VC19	VC18
<i>Leptopterna ferrugata</i> (Fallén)	VC19	VC18
<i>Liocoris tripustulatus</i> (Fabricius)	VC19	VC18
<i>Lopus decolor</i> (Fallén)	VC19	VC18
<i>Lygocoris pabulinus</i> (Linnaeus)	VC19	VC18
<i>Lygocoris rugicollis</i> (Fallén)	VC19	VC18
<i>Lygus maritimus</i> Wagner [NEW]	VC19	VC18
<i>Lygus pratensis</i> (Linnaeus) [NEW]	VC19	VC18
<i>Lygus rugulipennis</i> Poppius	VC19	VC18
<i>Macrolophus pygmaeus</i> (Rambur)	-	VC18 (19)
<i>Macrolophus rubi</i> Woodroffe [DELETED]	-	-
<i>Macrotylus horvathi</i> (Reuter) [NEW]	VC19	VC18

MIRIDAE (CONTINUED)

<i>Macrotylus paykullii</i> (Fallén)	VC19	VC18
<i>Macrotylus solitarius</i> (Meyer-Dür) [DELETED]	-	-
<i>Malacocoris chlorizans</i> (Panzer)	VC19	VC18
<i>Mecomma ambulans</i> (Fallén)	VC19	VC18
<i>Mecomma dispar</i> (Boheman) [NEW]	VC19	-
<i>Megacoelum infusum</i> (Herrich-Schaeffer)	VC19	VC18
<i>Megaloceroea recticornis</i> (Geoffroy)	VC19	VC18
<i>Megalocoleus molliculus</i> (Fallén)	VC19	VC18
<i>Megalocoleus tanaceti</i> (Fallén)	VC19 (11)	VC18
<i>Miridius quadrivirgatus</i> (A. Costa)	VC19	VC18
<i>Miris striatus</i> (Linnaeus)	VC19	VC18
<i>Monalocoris filicis</i> (Linnaeus)	VC19	VC18
<i>Neolygus contaminatus</i> (Fallén)	VC19	VC18
<i>Neolygus populi</i> (Leston) [NEW]	-	VC18
<i>Neolygus viridis</i> (Fallén)	-	VC18 (20)
<i>Notostira elongata</i> (Geoffroy)	VC19	VC18
<i>Oncotylus viridiflavus</i> (Goeze)	VC19	VC18
<i>Orthocephalus coriaceus</i> (Fabricius) [NEW]	VC19	VC18
<i>Orthocephalus saltator</i> (Hahn)	VC19	VC18
<i>Orthonotus rufifrons</i> (Fallén)	VC19	VC18
<i>Orthops basalis</i> (A. Costa) [NEW]	VC19	VC18
<i>Orthops campestris</i> (Linnaeus)	VC19	VC18
<i>Orthops kalmii</i> (Linnaeus) [NEW]	VC19	VC18
<i>Orthotylus adenocarpi</i> (Perris)	VC19	VC18
<i>Orthotylus bilineatus</i> (Fallén)	VC19	VC18
<i>Orthotylus caprai</i> Wagner [NEW]	-	VC18
<i>Orthotylus concolor</i> (Kirschbaum) [NEW]	-	VC18
<i>Orthotylus ericetorum</i> (Fallén)	VC19	-
<i>Orthotylus flavinervis</i> (Kirschbaum) [NEW]	-	VC18
<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	VC19	VC18
<i>Orthotylus marginalis</i> Reuter	VC19	VC18
<i>Orthotylus moncreaffi</i> (Douglas & Scott)	VC19	VC18
<i>Orthotylus nassatus</i> (Fabricius)	VC19	VC18
<i>Orthotylus ochrotrichus</i> Fieber	VC19	VC18
<i>Orthotylus prasinus</i> (Fallén) [NEW]	-	VC18
<i>Orthotylus rubidus</i> (Puton)	-	VC18
<i>Orthotylus tenellus</i> (Fallén)	VC19	VC18
<i>Orthotylus virescens</i> (Douglas & Scott)	VC19 (11)	VC18
<i>Pachytomella parallela</i> (Meyer-Dür)	-	VC18 (19)
<i>Pantilius tunicatus</i> (Fabricius)	VC19	VC18
<i>Phoenicocoris obscurellus</i> (Fallén)	-	VC18 (18)
<i>Phylus coryli</i> (Linnaeus)	VC19	-
<i>Phylus melanocephalus</i> (Linnaeus)	VC19	VC18
<i>Phytocoris dimidiatus</i> Kirschbaum	VC19	VC18
<i>Phytocoris longipennis</i> Flor	VC19	VC18
<i>Phytocoris populi</i> (Linnaeus)	-	VC18
<i>Phytocoris reuteri</i> Saunders	VC19	VC18
<i>Phytocoris tiliae</i> (Fabricius)	VC19	VC18
<i>Phytocoris ulmi</i> (Linnaeus)	VC19	VC18
<i>Phytocoris varipes</i> Boheman	VC19	VC18
<i>Pilophorus cinnamopterus</i> (Kirschbaum)	VC19	VC18
<i>Pilophorus clavatus</i> (Linnaeus)	VC19	VC18
<i>Pilophorus perplexus</i> Douglas & Scott	VC19	VC18
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	VC19	VC18

MIRIDAE (CONTINUED)

<i>Pinalitus viscicola</i> (Puton)	VC19	-
<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	VC19	VC18
<i>Plagiognathus arbustorum</i> (Fabricius)	VC19	VC18
<i>Plagiognathus chrysanthemi</i> (Wolff)	VC19	VC18
<i>Platycranus bicolor</i> (Douglas & Scott)	VC19	VC18
<i>Polymerus nigrita</i> (Fallén)	VC19	VC18
<i>Polymerus unifasciatus</i> (Fabricius)	-	VC18 (21)
<i>Psallus albicinctus</i> (Kirschbaum)	VC19	-
<i>Psallus ambiguus</i> (Fallén)	VC19	VC18
<i>Psallus assimilis</i> Stichel	-	VC18
<i>Psallus betuleti</i> (Fallén) [NEW]	-	VC18
<i>Psallus confusus</i> Rieger [NEW]	VC19	VC18
<i>Psallus falleni</i> Reuter	VC19	VC18
<i>Psallus flavellus</i> Stichel	VC19	VC18
<i>Psallus haematodes</i> (Gmelin)	VC19	VC18
<i>Psallus lepidus</i> Fieber	-	VC18
<i>Psallus mollis</i> (Mulsant & Rey) [NEW]	VC19	VC18
<i>Psallus perrisi</i> (Mulsant & Rey)	VC19	VC18
<i>Psallus variabilis</i> (Fallén) [NEW]	VC19	VC18
<i>Psallus varians</i> (Herrich-Schaeffer)	VC19	VC18
<i>Psallus wagneri</i> Ossiannilsson	VC19	VC18
<i>Pseudoloxops coccineus</i> (Meyer-Dür)	VC19 (11)	VC18
<i>Reuteria marqueti</i> Puton [NEW]	VC19	-
<i>Rhabdomiris striatellus</i> (Fabricius)	VC19	VC18
<i>Salicarus roseri</i> (Herrich-Schaeffer) [NEW]	VC19	VC18
<i>Stenodema calcarata</i> (Fallén)	VC19	VC18
<i>Stenodema holsata</i> (Fabricius) [NEW]	-	VC18
<i>Stenodema laevigata</i> (Linnaeus)	VC19	VC18
<i>Stenodema trispinosa</i> Reuter	VC19	VC18
<i>Stenotus binotatus</i> (Fabricius)	VC19	VC18
<i>Sthenarus rotermundi</i> (Scholtz)	VC19	VC18
<i>Teratocoris antennatus</i> (Boheman)	VC19	VC18
<i>Teratocoris saundersi</i> Douglas & Scott	-	VC18
<i>Tinicephalus hortulanus</i> (Meyer-Dür)	-	VC18 (18)
<i>Trigonotylus caelestialium</i> (Kirkaldy)	VC19	VC18
<i>Trigonotylus ruficornis</i> (Geoffroy) [NEW]	VC19	VC18
<i>Tuponia brevirostris</i> Reuter	VC19	-
<i>Tuponia mixticolor</i> (A. Costa)	VC19	-
<i>Tytthus pygmaeus</i> (Zetterstedt) [NEW]	VC19	VC18

CERATOCOMBIDAE

<i>Ceratocombus coleopratus</i> (Zetterstedt) [DELETED]	-	-
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SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	VC19	VC18
<i>Chartoscirta cocksii</i> (Curtis)	-	VC18 (23)
<i>Chartoscirta elegantula</i> (Fallén)	VC19 (8)	-
<i>Chiloxanthus pilosus</i> (Fallén) [DELETED]	-	-
<i>Halosalda lateralis</i> (Fallén)	-	VC18
<i>Salda littoralis</i> (Linnaeus)	VC19	VC18
<i>Saldula opacula</i> (Zetterstedt)	-	VC18
<i>Saldula orthochila</i> (Fieber)	VC19	VC18
<i>Saldula pallipes</i> (Fabricius) [NEW]	VC19	VC18
<i>Saldula palustris</i> (Douglas)	VC19	VC18

SALDIDAE (CONTINUED)

Saldula pilosella (Thomson) [NEW]

VC19

VC18

Saldula saltatoria (Linnaeus)

VC19

VC18

MESOVELIIDAE

Mesovelia furcata Mulsant & Rey

VC19

VC18

HEBRIDAE

Hebrus pusillus (Fallén)

-

VC18 (23)

Hebrus ruficeps Thomson

VC19 (7)

VC18 (7)

HYDROMETRIDAE

Hydrometra stagnorum (Linnaeus)

VC19

VC18

VELIIDAE

Microvelia pygmaea (Dufour)

VC19

VC18

Microvelia reticulata (Burmeister)

VC19

VC18

Velia caprai Tamanini

VC19

VC18

Velia saulii Tamanini

VC19 (1)

-

GERRIDAE

Aquarius najas (De Geer)

-

VC18 (7)

Aquarius paludum (Fabricius) [DELETED]

-

-

Gerris argentatus Schummel

VC19

VC18 (23)

Gerris costae (Herrich-Schaeffer) [DELETED]

-

-

Gerris gibbifer Schummel

VC19 (7)

VC18

Gerris lacustris (Linnaeus)

VC19

VC18

Gerris lateralis Schummel

VC19

-

Gerris odontogaster (Zetterstedt)

VC19

VC18

Gerris thoracicus Schummel

VC19 (7)

VC18

NEPIDAE

Nepa cinerea Linnaeus

VC19

VC18

Ranatra linearis (Linnaeus)

VC19

VC18

NAUCORIDAE

Ilyocoris cimicoides (Linnaeus)

VC19

VC18

APHELOCHEIRIDAE

Aphelocheirus aestivalis (Fabricius)

VC19 (7)

VC18 (7)

NOTONECTIDAE

Notonecta glauca Linnaeus

VC19

VC18

Notonecta maculata Fabricius

VC19 (7)

VC18

Notonecta obliqua Thunberg

-

VC18 (7)

Notonecta viridis Delcourt

VC19

VC18

PLEIDAE

Plea minutissima Leach

VC19

VC18

CORIXIDAE

Arctocorisa germari (Fieber) [NEW]

-

VC18

Callicorixa praeusta (Fieber)

VC19

VC18

Corixa affinis Leach

VC19

VC18

Corixa dentipes Thomson

VC19 (7)

VC18

CORIXIDAE (CONTINUED)

<i>Corixa panzeri</i> Fieber	VC19	VC18
<i>Corixa punctata</i> (Illiger)	VC19	VC18
<i>Cymatia bondsdorffii</i> (C.R. Sahlberg)	VC19 (7)	VC18 (24)
<i>Cymatia coleoptrata</i> (Fabricius)	VC19	VC18
<i>Cymatia rogenhoferi</i> (Fieber)	-	VC18 (12)
<i>Hesperocorixa castanea</i> (Thomson)	-	VC18 (25)
<i>Hesperocorixa linnaei</i> (Fieber)	VC19	VC18
<i>Hesperocorixa moesta</i> (Fieber)	VC19 (7)	VC18
<i>Hesperocorixa sahlbergi</i> (Fieber)	VC19	VC18
<i>Micronecta minutissima</i> (Linnaeus)	VC19 (5)	-
<i>Micronecta poweri</i> (Douglas & Scott)	VC19 (7)	VC18
<i>Micronecta scholtzi</i> (Fieber)	VC19	VC18
<i>Paracorixa concinna</i> (Fieber)	VC19 (7)	VC18 (7)
<i>Sigara distincta</i> (Fieber)	VC19	VC18
<i>Sigara dorsalis</i> (Leach)	VC19	VC18
<i>Sigara falleni</i> (Fieber)	VC19	VC18
<i>Sigara fossarum</i> (Leach)	VC19	VC18
<i>Sigara iactans</i> Jansson	VC19	VC18 (4)
<i>Sigara lateralis</i> (Leach)	VC19	VC18
<i>Sigara limitata</i> (Fieber)	VC19	VC18
<i>Sigara nigrolineata</i> (Fieber)	VC19	VC18
<i>Sigara selecta</i> (Fieber)	VC19	VC18
<i>Sigara semistriata</i> (Fieber) [DELETED]	-	-
<i>Sigara stagnalis</i> (Leach)	VC19	VC18
<i>Sigara striata</i> (Linnaeus) [NEW]	-	VC18

TABLE 1. The references relating to the numbers in the list of divided records.

(1) Allen (1959)	(15) Groves (1965)
(2) Aukema & Nau (1992)	(16) Groves (1966)
(3) Bowdrey (2007a)	(17) Groves (1967)
(4) Brooke (2010a)	(18) Groves (1968)
(5) Brown & Scudder (1958)	(19) Groves (1969)
(6) Harvey (2008)	(20) Groves (1973)
(7) Huxley (2003)	(21) Groves (1975)
(8) Kirby & Lambert (1989)	(22) Groves (1976)
(9) Le Quesne (1955)	(23) Groves (1982)
(10) Nau (1984b)	(24) Groves (1983)
(11) Nau (1984h)	(25) Groves (1984)
(12) Wilson (2010)	(26) Groves (1986)
(13) Ryan (2016c)	(27) Kirby (1997)
(14) Groves (1964)	

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**SPECIES ACCOUNTS FOR THE HEMIPTERA-HETEROPTERA REPORTED AS NEW TO
THE BRITISH ISLES SINCE SOUTHWOOD & LESTON (1959): 2002 TO 2007**

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Introduction

This is the fifth instalment of species accounts which expand upon the Addendum to Southwood & Leston (1959) (Ryan, 2012d). The previous instalments (Ryan, 2015a, 2016a, 2016b & 2017a) covered the species announced as new to the British Isles in the period 1959 to 2001, which is here extended by another six years to 2007. As before, the species accounts are based upon details published in the national entomological literature up to the present time.

The numbering of the species accounts follows that of Ryan (2012d), which places them within the taxonomic sequence of Southwood & Leston (1959). Details of identification are given, but figures from published articles are not reproduced. A full set of keys for the land bugs is provided by Nau (2012) and Kirby (2015). Images for the bugs may be found at the British Bugs website (www.britishbugs.org.uk) and elsewhere on the internet, such as Flickr (www.flickr.com). County distribution maps for the new species are given in Figure 1. References are not cited within the species accounts, in order to avoid cluttering the prose. The evidence base for the accounts is instead given in an annotated bibliography.

Species accounts

290C *Tuponia brevirostris* Reuter (Miridae)

This plant bug was first found in the British Isles by M. V. L. Barclay beating tamarisk at Chelsea Harbour, Chelsea, Middlesex on 24 August 2001. It has since been recorded from the counties of Hampshire, Sussex, Hertfordshire, Essex, Kent, Berkshire, Buckinghamshire, Oxfordshire and Bedfordshire, adults occurring in the months of July, August, September and October. Nymphs have been recorded in August. Where stated, the bug was taken from tamarisk.

The bug resembles a small orthotyline, but none of this subfamily are associated with tamarisk.

075D *Nysius cymoides* (Spinola) (Lygaeidae)

This seedbug was first found in the British Isles by W. R. Dolling at Beacon Lagoons Nature Reserve on the Yorkshire coast in 2003. In the same year it was also taken in Hertfordshire and Bedfordshire. There have been no more published records.

The bug can be identified by the shape of the male genital capsule.

261A *Psallus pseudoplatani* Reichling (Miridae)

This plant bug was first found in the British Isles by R. D. Hawkins beating sycamore at Sunbury Park, Middlesex on 21 June 2001. It has since been recorded twice more, again on sycamore, at St Ives, Huntingdonshire in 2003 and at Rea Brook Valley, Shropshire in June 2014.

The bug can be separated from its congeners by examination of the male genitalia.

156A *Stephanitis takeyai* Drake & Maa (Tingidae)

This lacebug was first found in the British Isles on *Pieris japonica*, Savill Garden, Surrey (near Windsor, Berkshire) in January 1998, reported by the Plant Health and Seeds Inspectorate (DEFRA). It has since been recorded from the counties of Oxfordshire, Hampshire and Yorkshire, adults occurring in the months of June, July, August, September, October and December. Where stated, the bug was found on *Pieris* or rhododendron in public and private gardens, but it has also been recorded away from these plants, beating Box, sweeping low vegetation and on a shoe in a school playground.

The bug will key to *Stephanitis rhododendri* Horváth in Southwood & Leston's text, but the black markings of the former make the two species easily distinguishable.

579A *Micronecta griseola* Horváth (Corixidae)

This waterboatman was first recorded in the British Isles from the River Great Ouse in Bedfordshire by S. E. Brooke and B. S. Nau on 16 August 2000. It has since been recorded in lakes, rivers and canals in the counties of Huntingdonshire, Oxfordshire, Northamptonshire, Hampshire, Surrey, Berkshire and Clare, the adults occurring in the months of May, June, July and August.

The bug is similar in size to *Micronecta poweri* (Douglas & Scott), but is a little smaller. Definite identification requires the examination of the parameres.

062B *Brachycarenum tigrinus* (Schilling) (Rhopalidae)

This bug was first found in the British Isles by R. A. Jones sweeping and suction sampling at Battersea Park, Surrey on 28 July 2003. It has since been recorded from the counties of Kent, Essex, Suffolk and Oxfordshire, adults occurring in the months of June, July, August and September. Where stated, the records are for sweeping, with Dittander, *Lepidium latifolium*, given as one source, except for one record beating Lawson Cypress.

The bug is distinct from other British rhopalids in being straw yellow with black spots, and having only a partially divided metapleuron and a short head.

040A *Eurydema ornata* (Linnaeus) (Pentatomidae)

This shieldbug was first found in the British Isles on 25 April 2004 by A. R. Collins on the cliff tops around Gordon's Steps, Boscombe, Hampshire, on Sea Radish, *Raphanus raphanistrum*. It has since been recorded from the counties of Dorset, Surrey, Sussex and Monmouthshire, adults occurring in the months of May, June, August and October. It has been found on the additional plants wallflower, *Cheiranthus allionii*, and *Salix*. It has also been taken in a MV light trap.

The bug can be distinguished from the red form of *Eurydema oleracea* (Linnaeus) by the former being red with black markings, rather than black with red markings.

470A *Naucoris maculatus* Fabricius (Naucoridae)

This saucerbug was first found in the British Isles by B. S. Nau and S. E. Brooke in freshwater pools at Samphire Hoe, near Dover on the Kent coast, on 11 September 2004. Both nymphs and adults were present. There have been no further published records of this species.

The bug differs from *Ilyocoris cimicoides* (Linnaeus) in being smaller, less shiny, browner and more strongly marked on the pronotum. The male genitalia give a definite identification.

307A *Hypseloecus visci* (Puton) (Miridae)

This plant bug was first found in the British Isles by D. Gibbs on mistletoe in an orchard at Tintinhull House, Somerset on 22 July 2003. It has since been recorded from the counties of Middlesex, Hampshire, Berkshire, Bedfordshire, Wiltshire, Oxfordshire and Gloucestershire, adults occurring in the months of June, July and August. Nymphs have been recorded in July. Where stated the records are for mistletoe, on apple, lime, rowan, cherry and hawthorn, and there is a single record at MV light.

The bug is superficially similar to *Charagochilus gyllenhalii* (Fallén), but the shape of the head and host plant associations are different.

168A *Corythucha ciliata* (Say) (Tingidae)

This lacebug was first found in the British Isles at a commercial nursery in Bedfordshire in 2006, reported by the Plant Health and Seeds Inspectorate (DEFRA), where it was found to have spread to plane trees outside the site. Nymphs were found in September and both nymphs and adults in October. There have been no further reports of this bug.

The bug is distinctive and cannot be confused with any other British lacebug.

093C *Sphragisticus nebulosus* (Fallén) (Lygaeidae)

This seedbug was first found in the British Isles by C. Plant in pitfall plants set amongst arable weeds at RSPB Lakenheath Fen, Suffolk in 1997. It has since been recorded from several sites nearby in weedy areas of arable fields, in Norfolk and Suffolk, adults occurring in the months of April, July, August and September. Nymphs have been recorded in the months of July and August.

The bug is easily separated from similar lygaeids by the presence of 5-7 long, erect, black hairs arising from dark spots on the yellow, explanate, lateral margins of the pronotum.

246A *Macrotylus horvathi* (Reuter) (Miridae)

This plant bug was first found in the British Isles by P. J. Hodge on black horehound, *Ballota nigra*, growing among long grass at Queenborough, Kent on 22 July 2005. It has since been recorded in the counties of Hertfordshire and Bedfordshire, adults occurring in the months of July, August and September. Where stated, the bugs were taken from black horehound.

The bug is very similar to *Macrotylus solitarius* (Meyer-Dür), but has a different host plant, has the apex of femur densely covered with fine dark spots, and has the black mark beyond the apex of the membrane cells in the form of a small, circular disc.

501A *Sigara iactans* Jansson (Corixidae)

This waterboatman was first found in the British Isles in a dyke on the Norfolk coast at Snettisham Beach by B. S. Nau and S. E. Brooke on 19 March 2005. More specimens were found in material collected in 2004 from the Norfolk Broads. Since then it has been recorded in the counties of Sussex, Bedfordshire, Lincolnshire, Suffolk, Kent, Essex, Cambridgeshire and Northamptonshire, adults occurring in the months of January, March, May, July, August, September, October, November and December.

The bug is very similar to *Sigara falleni* (Fieber), and can be separated by the form of the basal lobe of the male pala, which is more pronounced in *S. iactans*, and by the arrangement of the palar pegs, which differ slightly.

481A *Cymatia rogenhoferi* (Fieber) (Corixidae)

This waterboatman was first found in the British Isles by B. S. Nau and S. E. Brooke in a flooded gravel pit, Meadow Lane Quarry, near the River Great Ouse, between Bedford and Willington, Bedfordshire on 29 October 2005. It has since been recorded from the counties of Sussex and Essex, adults occurring in the months of July, August and September.

The bug is distinct from other British congeners in having finely yellow-speckled markings on the pronotum, which is unmarked in the other species.

172A *Oncocephalus pilicornis* Reuter (Reduviidae)

There is only one record of this species in the British Isles, taken by J. W. Meiklejohn on 25 July 1990 near Pershore, Worcestershire.

350A *Brachynotocoris puncticornis* Reuter (Miridae)

This plant bug was first collected in the British Isles on an ash tree in Priory Country Park, Bedford, Bedfordshire on 15 August 2006, at a bridge over the River Great Ouse by S. E. Brooke. An earlier record has since been identified from a photograph taken on 27 August 2002 in Hertfordshire. Further records are from the counties of Oxfordshire, Berkshire, Gloucestershire and Buckinghamshire, adults occurring in the months of July and September. Where stated, the associated plant was ash.

The bug can be identified by the expanded rostrum, like *Platycranus bicolor* (Douglas & Scott), but the latter is specific to gorse. The large scutellum of the former is a distinctive feature relative to the latter.

130E *Arocatus longiceps* Stål (Lygaeidae) [formerly *A. roeselii*]

This seedbug was first found in the British Isles in November 2006 at the Royal College of Physicians, Regents Park, London, Middlesex, reported by M. V. L. Barclay. It has since been recorded from the counties of Surrey, Oxfordshire, Berkshire, Cambridgeshire, Hertfordshire, Huntingdonshire, Leicestershire and Bedfordshire, adults and nymphs occurring in every month from March to October. Adults have also been found in November and December. The bug has been found in and on buildings; by beating, sweeping and searching leaf litter in the vicinity of plane trees; under the bark of plane trees; and by beating alder. The bug flies readily.

The red and black markings of the bug make it distinct among the British lygaeids.

256A *Psallus montanus* Josifov (Miridae)

This plant bug was formerly a subspecies of *Psallus betuleti* (Fallén), and was reported in the British literature as being raised to specific rank by B. S. Nau in 2007. He reported that both species were present in his county of Bedfordshire, but that records for the new species predominated. It has since been recorded from the counties of Yorkshire, Hampshire, Surrey, Hertfordshire, Shropshire, Berkshire, Oxfordshire and Buckinghamshire adults occurring in the months of May, June and July. Where stated, the bug has been found on birch, alder and at light. Nymphs have been found in May.

The bug can be separated from *P. betuleti* by examination of the male genitalia. All previous records for *P. betuleti* must be disregarded, unless traced to an authenticated specimen.

350B *Reuteria marqueti* Puton (Miridae)

This plant bug was first found in the British Isles by I. Woiwod in a moth trap at Cockayne Hatley, Bedfordshire in 2006. The bug has since been found in Essex.

The bug can be distinguished from other orthotylinines by its dense white pubescence and the sharply defined black bands along each side of the first antennal segment.

501B *Sigara longipalis* (J. Sahlberg) (Corixidae)

This waterboatman was first found in the British Isles by J. Blackburn in 2006 at Upton Broad, Norfolk. There have been no more published records.

The bug is closely related to *Sigara iactans* Jansson and *Sigara falleni* (Fieber), and may be distinguished by the shape of the pala and by the arrangement of the palar pegs.

Annotated bibliography

290C *Tuponia brevirostris* Reuter (Miridae)

Barclay & Nau (2003). 24 August 2001, adults and nymphs beaten from tamarisk, *Tamarix gallica* L., by M. V. L. Barclay at Chelsea Harbour, Chelsea, Middlesex, in the company of *T. mixticolor*. 4 August 2002, beaten again from the same bush. 1 September 2002, beaten from *Tamarix gallica* in a garden at Maxwell Road, Fulham, Middlesex.

Mann (2004). 25 July 2003, beaten from tamarisk in a garden, Mogden Lane, Hounslow, Middlesex.

Ryan (2012b). 12 July 2010, on tamarisk growing, at Lepe Country Park, South Hampshire. 11 August 2010 on tamarisk, beach car park, West Wittering, West Sussex.

Denton (2004a). August 2003, Church Norton, West Sussex on tamarisk.

Widgery (2004). 6 October 2003, on tamarisk in a garden, Potters Bar, Hertfordshire.

Widgery (2011). Repeat of Potters Bar record, but states it was in VC21. 28 August 2011, Rye Meads, VC20 on tamarisk.

Bowdrey (2013). 10 October 2012, on tamarisk at several sites on the cliffs between Clacton-on-sea and Holland-on-sea, North Essex. 24 October 2012, on tamarisk on the cliffs at Beacon Cliff and Dovercourt Bay, North Essex.

Ryan (2014c). 21 July 2011, on tamarisk, Old Woodstock, Oxfordshire. Records for Hertfordshire, Bedfordshire, London & Kent.

Ryan (2016c). Records for VC10 and VC11.

Ryan (2017c). Records for Oxfordshire, Berkshire & Buckinghamshire on tamarisk in July & August.

075D *Nysius cymoides* (Spinola) (Lygaeidae)

Nau (2004). New to Britain. Records for Yorkshire (W. R. Dolling), Hertfordshire (J. Widgery) and Bedfordshire (B. S. Nau), all in 2003.

Dolling (2003). 2003 (27 August or 17 September), Beacon Lagoons Nature Reserve, East Yorkshire, single male taken.

261A *Psallus pseudoplatani* Reichling (Miridae)

Hawkins (2003). Beaten from sycamore, Sunbury Park, Middlesex, 21 June 2001, by the author.

Nau (2004). On sycamore at St Ives, Huntingdonshire in 2003.

Fowler (2015). Found on sycamore at Rea Brook Valley, Shropshire in June 2014.

156A *Stephanitis takeyai* Drake & Maa (Tingidae)

- Sims & Halstead (2006). Found on rhododendrons, RHS Garden, Wisley, Surrey, 15 October 2005.
- Ryan (2012c). New to Oxfordshire. Found on the author's shoe, 15 June 2011, whilst sitting in the playground of St Barnabas School, Jericho, Oxford. Neither *Pieris* nor rhododendron were noticed in the vicinity.
- Bantock (2014b). New to Yorkshire. Found on *Pieris japonica* by Stuart Foster at Edenthorpe (VC63), 20 October 2013.
- Malumphy & Reid (2007). Now naturalised in England.
- Halstead & Malumphy (2003). *Pieris* Lacebug. First detected in Britain on *Pieris japonica*, Savill Garden, Surrey (near Windsor, Berkshire), January 1998. The foliage exhibited coarse yellowish mottling and bronzing. Adults and eggs were present. Then found at Valley Gardens in 1998, feeding on the same plant and *Pieris formosa*., rhododendron and *Agarista papulifolia*. Subsequently found on several occasions at commercial plant nurseries on imported *P. japonica* plants. Found in a private garden, West Byfleet, Surrey, September 2002. The plant was 15 years old and feeding damage had only been noticed that summer, so the bugs had come from elsewhere. The site is 8 miles from Savill Garden. The bug overwinters as adults and eggs, the latter laid in the leaf midrib. The adult has been found in December and January at Savill.
- Ryan (2012a). Singleton taken beating Box at Box Hill, Surrey, 19 August 2009. Singleton taken at the same site, sweeping low vegetation around the edge of the Zig Zag car park, 23 August 2009. Neither *Pieris* nor rhododendron were noticed in the vicinity.
- Ryan (2016d). Record for South Hampshire, 7 July 2013.

579A *Micronecta griseola* Horváth (Corixidae)

- Brooke & Nau (2003). New to Britain. Similar in size to *M. poweri* but a little smaller. Identification requires examination of the parameres. Jansson (1986, *Acta Entomologica Fennica* 47: 1-94) gives drawings. Records for adults: River Great Ouse in Beds (16/8/2000, 12/6/2001, 30/6/2001, 8/6/2002) & Hunts (8/6/2002); River Thames in Oxon (8/6/2002); R. Nene, Northants (20/8/2002). Site habitats were rivers of slow to medium flow having a hard substrate (gravel, concrete, vertical bank protection of steel or concrete, near locks, weirs and bridges), usually coated by a short filamentous algal lawn, 0.5-1.5 metres below the surface.
- Denton (2012). New to VC12 and VC17. Adults and nymphs found on 20 May 2011 in unvegetated margins of Basingstoke Canal, North Hampshire. Bug present in Mychett Lake, Surrey, 11 July 2011.
- Brooke (2003). Records for River Kennet near Reading (VC22) and River Great Ouse at St Ives (VC31).
- Denton (2004a). Abundant in River Kennet at Southcote (VC22), May-June 2003.
- Campbell (2008). Repeat of 2002 Oxon record. Wolvercote and Eynsham (SP40)
- Ryan (2016c). Record for VC12.
- Ryan (2016e). Record for Ireland, Clare (VCH9).

062B *Brachycarenum tigrinus* (Schilling) (Rhopalidae)

- Ryan (2013a). Record for Headington Hill Park, Oxford, 22 August 2006, beating Lawson Cypress.
- Jones (2004a) & Jones (2004b). Battersea Park, Surrey, 28 July 2003, by sweeping and suction sampling, one specimen by each method. Distinct from other British rhopalids in being straw yellow with black spots, and having only a partially divided metapleuron and a short head.
- Jones (2007). Swept at Swanscombe Marshes, West Kent, 21 June 2006. Swept on 13 September 2006 at Thames Barrier Park East, South Essex and Belvedere, West Kent. Also found at a car window on the same day in Woolwich, London (West Kent).
- Bowdrey (2007). 18 August 2005, Bawdsey Ferry Beach, Suffolk.
- Harvey (2005). Swept from Dittander, *Lepidium latifolium*, on 11 July, Purfleet, South Essex, on a disused railway siding close to the River Thames. 30 August 2005, swept from a brownfield habitat in Dagenham, Essex.

040A *Eurydema ornata* (Linnaeus) (Pentatomidae)

- Slade, Collins & Nau (2005). New to Britain. 25 April 2004, A. R. Collins, on the cliff tops around Gordon's Steps, Boscombe, South Hants, on Sea Radish, *Raphanus raphanistrum*. Second record from Tout Quarry, Isle of Portland, Dorset, May 2005. Third record on 7 June 2005 also on Sea Radish, above Portman Ravine, about 1 mile west of the first record. The bug can be distinguished from the red form of *E. oleracea* by the former being red with black markings, rather than black with red markings.
- Paul (2006). Record for 20/10/2006 on wallflower, *Cheiranthus allionii*, at the foot of chalk cliffs, between Bonchurch and Ventnor, Isle of Wight.
- Hawkins & Keay (2006). Found on *Salix* at the edge of Solom's Great Wood, Woodmansterne, Surrey, on 17 June 2005.
- Hodge (2006). At MV light trap at Peacehaven, East Sussex, 13 October 2003.
- Nau (2008a). Collins record from Southbourne, South Hampshire in 2005. Since 2004, it has been found at several south coast sites from Dorset to Sussex, and breeding in small numbers.
- Whitehead (2008). Record near Usk, Monmouthshire on 12/10/2006.
- Ryan (2016c). Record for VC10.
- Ryan (2016d). Record for VC11, 23 May 2006.
- Bantock (2016). Record for adult at Seaforth Head, East Sussex (VC13), 28 August 2015.

470A *Naucoris maculatus* Fabricius (Naucoridae)

- Nau & Brooke (2005). New to Britain. Found by the authors at Samphire Hoe near Dover (VC15) on the coast on 11 September 2004 in freshwater pools 150m from the sea. Nymphs and adults present. Differs from *I. cimicoides* in being smaller, less shiny, browner and more strongly marked on the pronotum. The male genitalia are distinctive. Adults and nymphs were also found on 29 September 2004.

307A *Hypseloecus visci* (Puton) (Miridae)

- Gibbs & Nau (2005). New to Britain. D. Gibbs found it on mistletoe in orchards at Tintinhull House, Somerset on 22 July 2003, and at Barrington Court, Somerset on 30 July 2003. Further records: 27 June 2004, Bushy Park, Middlesex, on mistletoe; at MV light at Fareham, Hampshire, 2 & 8 August 2004.
- Biggs (2009). Record for Waltham Place, White Waltham, Berkshire, 8 July 2008.
- Denton (2004b). Adults and nymphs present in large numbers on mistletoe on lime and hawthorn, Bushy Park, Middlesex, early July 2004.
- Nau & Brooke (2006b). 30 July 2005, on mistletoe in a former orchard on apple, at Box End, Kempston, Bedfordshire.
- Widgery (2008). 2007, Woodmancote, VC33.
- Ryan (2015b). Record for VC33.
- Ryan (2016c). Record for VC11.
- Ryan (2016d). Record for VC8, 7 July 2009.
- Ryan (2016e). Adults found on mistletoe growing on a small rowan tree, outside St Mary's Church, High Street, Oxford, 4 July 2015; and on mistletoe growing on a cherry tree, Holywell Cemetery, St Cross Road, Oxford, 13 & 17 August 2015.

168A *Corythucha ciliata* (Say) (Tingidae)

- Malumphy & Reid (2006), Malumphy, Reid & Collins (2007) & Malumphy, Reid & Eyre (2007). Platanus Lacebug. First British record by Plant Health and Seeds Inspectorate (DEFRA) at two infested commercial nurseries in Bedfordshire, September & October 2006. Taken from London Plane and Oriental Plane (*Platanus orientalis*), imported from France and Italy, the oldest of which were 10 metres tall and had been there for 6 years. Some infested trees had been grown from cuttings. The bugs had spread to mature (up to 15 metres tall), locally-grown planes, outside one of the nurseries, 50 metres distant. Fourth and fifth instar nymphs found on 28 September 2006. Nymphs and adults found on 6, 10 & 11 October 2006.

093C *Sphragisticus nebulosus* (Fallén) (Lygaeidae)

Nau (2006a). Record for September 2003, Icklingham, West Suffolk. New to Britain in 1997 at RSPB Lakenheath Fen, West Suffolk.

Judd (2010). First record by C. Plant, RSPB Lakenheath Fen, Suffolk, in pitfall traps set amongst arable weeds, July & August 1997. Adults and nymphs found at same site, 20 July 2000, under a mat of dead vegetation. Adults and nymphs found under ribwort plantain, *Plantago lanceolata*, at the edge of a sandy field margin, Hockwold cum Wilton [Norfolk], 22-23 August 2000, 5 miles from the original site. More found on 4-5 July 2012, 4 miles SW of Thetford among scattered ruderal vegetation in a sandy field margin; on 13 September 2003, Icklingham, in a fallow field with scattered ruderal plants; and on 30 April 2005 on loose sand amongst grasses. The bug is easily separated from similar lygaeids by the presence of 5-7 long, erect, black hairs arising from dark spots on the yellow, explanate, lateral margins of the pronotum.

246A *Macrotylus horvathi* (Reuter) (Miridae)

Hodge (2006). New to Britain. Queenborough, East Kent, 22 July 2005 on *Ballota nigra* growing among long grass.

Hodge (2009). Thamesmead, West Kent, 20 August 2008, on Black Horehound, *Ballota nigra*, growing on south bank of River Thames. Third British locality.

Hodge (2014). Record from 2004 in East Kent.

Brooke & Nau (2006a). Differs from *M. solitarius* in host plant, and has apex of femora densely covered with fine dark spots, and the black mark beyond the apex of the membrane cells has the form of a small, circular disc.

Bantock (2009). Found widely in London area in July and August 2009 on Black Horehound along the River Thames and northwards along the Lea Valley.

Nau (2010). 11 September 2009, swept from Black Horehound beside the River Flint on Flitton Moor, Bedfordshire.

Gray (2015). Record for Hertfordshire.

Greenslade *et al.* (2013). Record for Bingley Island, Canterbury, Kent, July-August 2012.

501A *Sigara iactans* Jansson (Corixidae)

Nau & Brooke (2006a). New to Britain. Very similar to *S. falleni*. Can be separated by the form of the basal lobe of the male pala, which is more pronounced in *S. iactans*, and by the arrangement of the palar pegs, which differ slightly. First found in a dyke on the West Norfolk coast at Snettisham Beach by the authors on 19/3/2005. More specimens were found amongst previously collected material in the Norfolk Broads in 2004. Robert Angus found it in sand pits at Camber, East Sussex in 2005. Other records: 11/1/2006, flooded gravel pit in Bedfordshire (same time as *C. rogenhoferi*); 15/1/2006, gravel quarry at Radwell, Bedfordshire.

Hodge (2007). Castle Water, Rye Harbour LNR, East Sussex, 6/11/2006, a recently excavated lake.

Chad (2007). Record for Coronation Cut flood relief channel of River Welland at Spalding, Lincolnshire (VC53) on 22 October 2007.

Chalkley (2008). Record for Framlingham Mere, Suffolk (VC25) on 29 August 2001.

Cook (2008). Record for Holme, Norfolk, 2007-2008.

Brooke (2009). Table of records so far. Includes new county records for Cambridgeshire (VC29) and Northamptonshire (VC32), months of January, March, May, July, August, October, November & December.

Brooke (2010). Records for Romney Marsh, East Kent, 2008; Aveley & Fambridge, South Essex, 2009; Guldeford, East Sussex, 2008.

Nau (2010). Record for Wilstead, Bedfordshire on 10 October 2009.

Ryan (2016g). Record for VC53.

Chalkley (2015). Records for lakes at Center Parcs, Elveden, Suffolk, most recently on 20 August 2013; and turf ponds at Oulton Marshes, near Lowestoft, Suffolk, 30 September 2013.

481A *Cymatia rogenhoferi* (Fieber) (Corixidae)

Nau & Brooke (2006a). New to Britain. First found in a flooded gravel pit near the River Great Ouse, between Bedford and Willington, Bedfordshire on 29/10/2005. A single specimen. Distinct from

other British congeners in having pale markings on the pronotum, which is unmarked in the other species.

Nau (2006b). The distinctive markings on the pronotum are finely yellow-speckled.

Brooke & Nau (2006b). Another record at the original site on 12 October 2006.

Nau (2008b). Another record at the original site for 28 August 2007, and nymphs on 12 October 2006. Site named as Meadow Lane Quarry, Bedford.

Brooke (2009). Additional record for Rye Harbour, East Sussex, September 2006.

Wilson (2010). Record for a chalk quarry at Grays, South Essex on 21 July [no year given].

172A *Oncocephalus pilicornis* Reuter (Reduviidae)

Whitehead (2006). New to Britain. First found by J. W. Meiklejohn on 25/7/1990 near Pershore, Worcestershire. Specimen kept in a store box for 14 years before identified by the author.

350A *Brachynotocoris puncticornis* Reuter (Miridae)

Nau & Brooke (2007). New to Britain. Taken from ash in Priory Country Park, Bedford on 15 August 2006, at a bridge over the River Great Ouse by S. E. Brooke. More specimens taken from the same tree on the following day. The insect has an expanded rostrum, like *Platycranus bicolor*, but the latter is specific to gorse. The large scutellum of the former is a distinctive feature relative to the latter.

Ryan (2013b). Records for 16 August 2006, along a sandy track leading to Sydlings Copse, Oxford, Oxon; 26 July, Lardon Chase, near Streatley, Berkshire; 2006, Burnham Beaches, Bucks; 2002, Hertfordshire.

Nau (2008b). Record for 28 August 2007 on young ash trees along a disused railway line near the original site.

Nau (2009). Another record from the above site in 2008.

Widgery & Nau (2009). Record for 27 August 2002, beating ash near the River Ash, at Easneye near Ware, Hertfordshire, from a photograph.

Nau (2010). Record for 19 September at another site in Bedfordshire.

Ryan (2015b). Record for VC33.

130E *Arocatus longiceps* Stål (Lygaeidae) [formerly *Arocatus roeselii* (Schilling)]

Spooner (2013a). Found in Oxford University Museum of Natural History, Oxford on 30 November 2012, and in large numbers under the bark of London Plane trees (*Platanus x hispanica*) along the road outside. Also a record for Cambridge.

Nau (2008a). Record from Holborn, Middlesex, 2007. First recorded in central London in 2006.

Hodge (2009). Record for Battersea Park, Surrey, 15 September 2008, crawling on a wall near mature plane trees.

Nau & Straw (2007). Records for 2006, Royal College of Physicians, Regents Park (VC21); 14 April 2007 on plane trees, Grays Inn (VC21), mostly under bark.

Barclay (2007). March 2007, adult and nymph in leaf litter on path leading to the Natural History Museum's Wildlife Garden, London (VC21). May 2007, very common on various plants and crawling on vertical surfaces. (The 2006 Royal College of Physicians record was for November). August & September 2007, found beating and sweeping. Flies readily, and flew through office windows of Natural History Museum, from July to November. Adults and nymphs seen together in every month from March to October. July onwards, adults also found elsewhere in London (VC21): Chelsea Embankment, Fulham Road, Imperial Wharf and Eelbrook Common.

Barclay (2009). British *Arocatus* are *A. longiceps*, not *A. roeselii*. 1 June 2009, adults and nymphs in NHM garden. Common since 2007 in Battersea Park, Surrey. On *Platanus* in Victoria Tower Gardens (TQ3079) for the last 6 or 7 years.

Willits (2013). 25 October 2012, The Lodge, Sandy, Bedfordshire, found on a fence post.

Spooner (2013b). Repeat of Oxon record. The record for Cambridge (VC29) was in 2012.

Ryan (2014d). Adults found under the bark of plane trees, St Giles & Christchurch Meadow, Oxford, 12 December 2012. Adults and nymphs found beating alder along the River Cherwell, New Marston Meadows, Oxford, 31 August 2013. Adult and nymph (reared to adult), 1 September 2013, towpath of River Thames, Oxford, Watsonian Berkshire.

Bantock (2014a). Reports the bug associated with alder, on mature trees growing along river corridors: King's Meads, Hertfordshire, 5 June 2013, adult; Buckden Gravel Pits, Huntingdonshire, adults and nymphs, 11 August 2013. [The VC32 of this article should be VC31, and the county record for Northamptonshire in Ryan (2014a & 2014b) is therefore an error.]

Bantock (2016). First record for Leicestershire (VC55), adult found indoors after visiting the ASDA supermarket, Hinckley, 24 November 2016.

Flanagan (2016). Record for Postman's Park, near St Paul's Cathedral, London (Middlesex), 6 December 2015, in litter on a tree fern.

256A *Psallus montanus* Josifov (Miridae)

Nau (2007). A former subspecies of *P. betuleti*. Identified in a personal collection from Stockgrove Park, Bedfordshire. Both species present in Beds, but *P. betuleti* predominates.

Nau (2009). 28 June 2008, on alder (*Alnus*) in Sandy Smith Reserve, Chicksands, Bedfordshire.

Flanagan & Nau (2010). 18 July 2009 on birch (*Betula*), Barrow Pit, near Worsborough, Barnsley, SW Yorks (VC63). 12 June 2010, beaten from Silver Birch (*Betula pendula*) at Rye Meads, Hoddesdon, Hertfordshire.

Nau (2010). 17 June 2009, at Rothamsted light trap, Cockayne Hatley, Bedfordshire.

Ryan (2016d). Record for VC11, 29 June 2001.

Ryan (2014e). Records for Surrey, Hertfordshire, Berkshire, Oxfordshire and Buckinghamshire in May, June and July.

Ryan (2015c). Reared from nymphs taken on Birch, Dry Sandford Pit, Dry Sandford, Watsonian Berkshire, 20 May 2014.

Fowler (2014). Record for Shropshire.

350B *Reuteria marqueti* Puton (Miridae)

Brooke & Nau (2007). 29 July 2006, in Rothamsted-type moth trap run by Ian Woiwod, Cockayne Hatley, Bedfordshire. The bug is distinctive in having dense white pubescence and a sharply defined black band along each side of the first antennal segment.

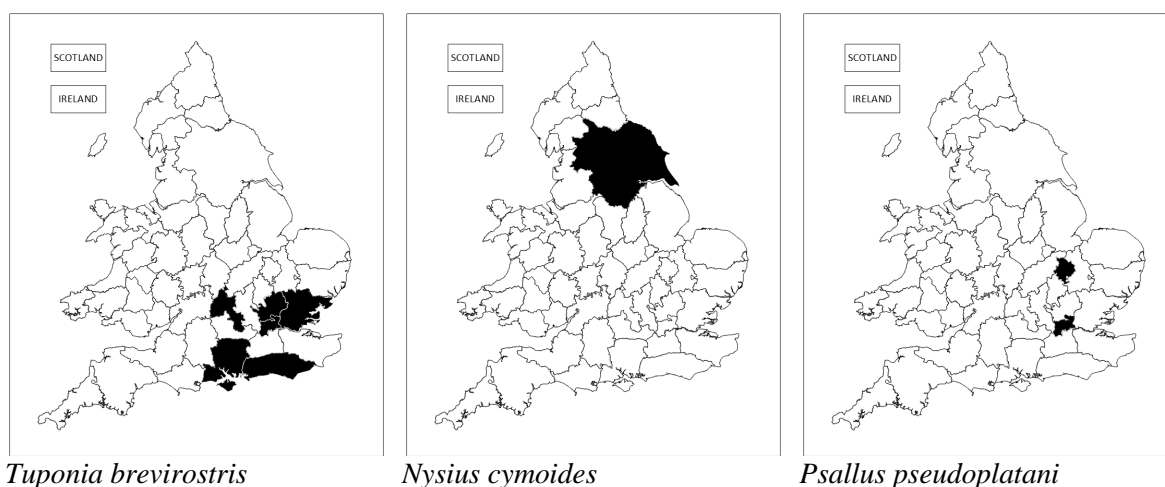
Nau (2008b). Repeat of above record, but date is given as 15 August 2006.

Ryan (2017b). Record for North Essex (VC19).

501B *Sigara longipalis* (J. Sahlberg) (Corixidae)

Blackburn (2007). 2006 & December 2006, Upton Broad, Norfolk Broads. Distinguished by the shape of the pala and by the arrangement of the palar pegs.

Brooke (2009). Repeat of above record. *S. longipalis* is closely related to *S. iactans* and *S. falleni*.

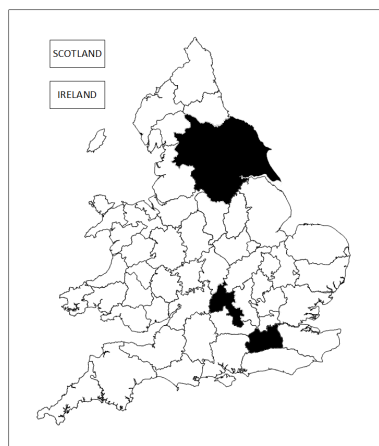


Nysius brevirostris

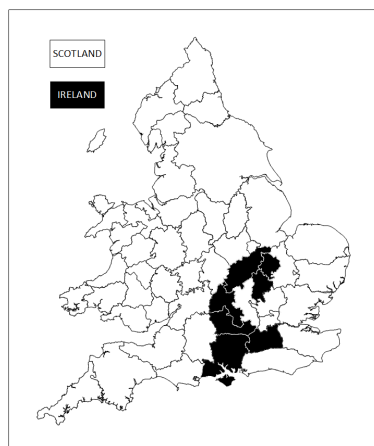
Nysius cymoides

Psallus pseudoplatani

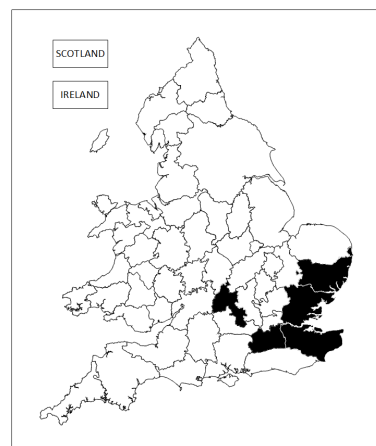
FIGURE 1. The county distributions of the described species (Ryan, 2014 a & 2014b).



Stephanitis takeyai



Micronecta griseola



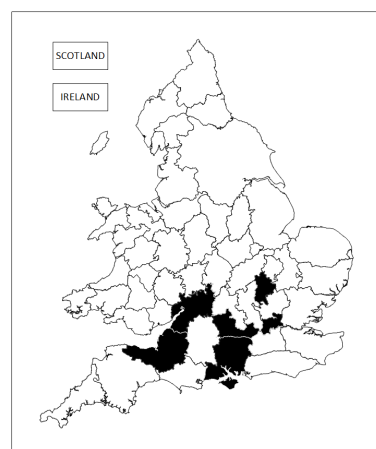
Brachycarenum tigrinus



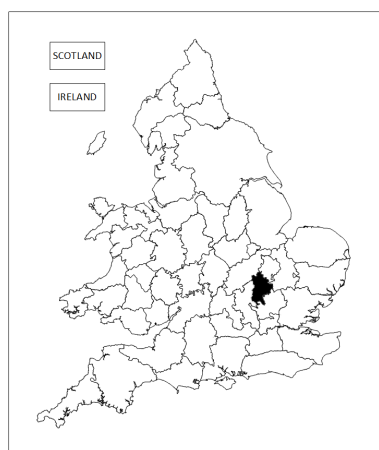
Eurydema ornata



Naucoris maculatus



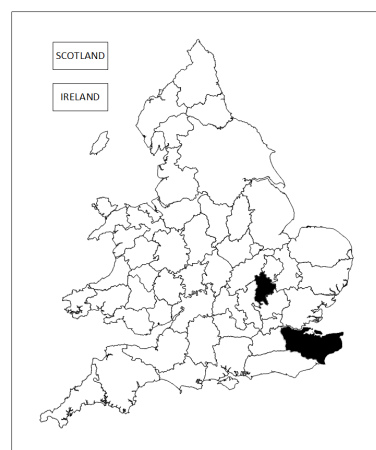
Hypseloecus visci



Corythucha ciliata

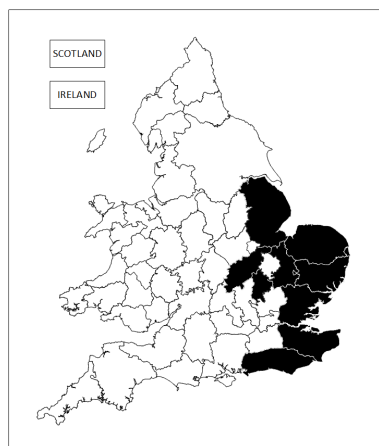


Sphragisticus nebulosus

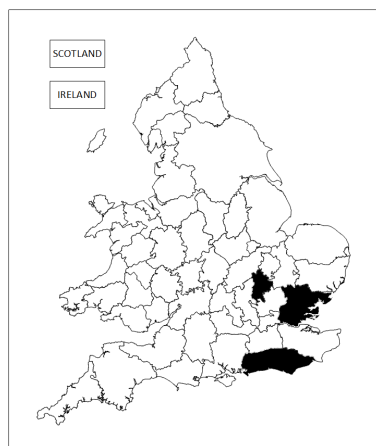


Macrotylus horvathi

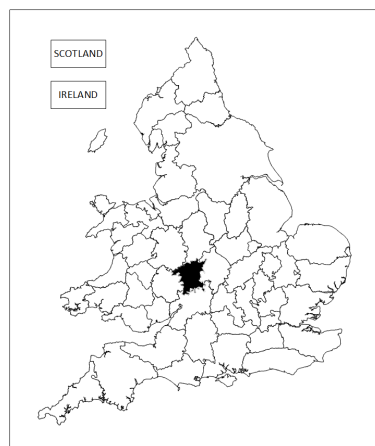
FIGURE 1 (CONTINUED).



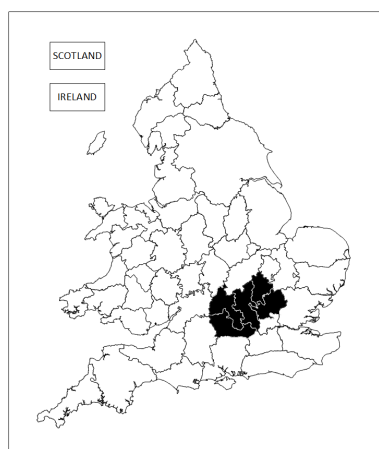
Sigara iactans



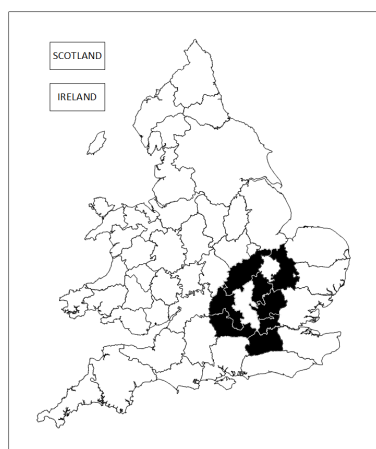
Cymatia rogenhoferi



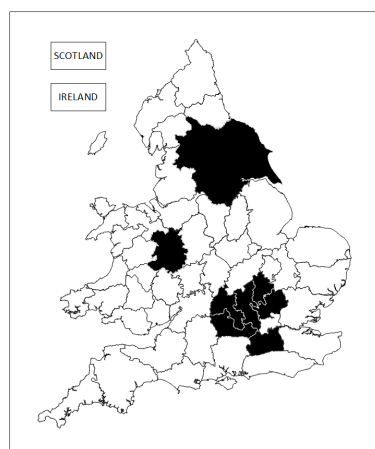
Oncocephalus pilicornis



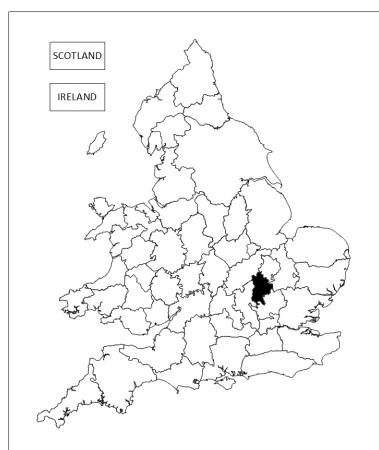
Brachynotocoris puncticornis



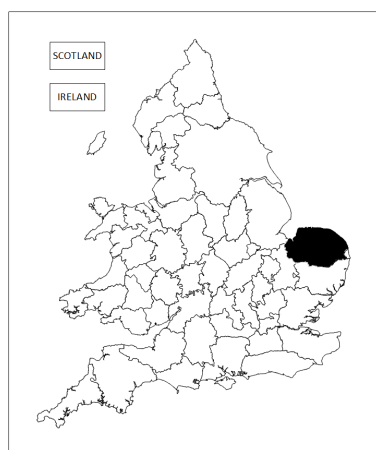
Arocatus longiceps



Psallus montanus



Reuteria marqueti



Sigara longipalis

FIGURE 1 (CONTINUED).

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SOME HOST PLANT ASSOCIATIONS OF HEMIPTERA-HETEROPTERA IN 2016

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This article follows Ryan (2015 & 2016) and presents a further list of confirmed host plants for species of Hemiptera-Heteroptera. Nymphs were taken from the listed host plants in the field on the given dates and reared to adult at home to confirm their identity.

PENTATOMIDAE

Pentatoma rufipes (Linnaeus), Forest Bug

Birch, *Betula* spp. (Betulaceae), University Parks, Oxford, Oxfordshire (National Grid Reference SP516072), 30 June 2016.

Larch, *Larix* spp. (Pinaceae), Cowleaze Wood, Chiltern Hills, Oxfordshire (SU727958), 4 July 2016; and Wooton, Oxfordshire (SP441195), 5 July 2016.

Scots Pine, *Pinus sylvaticus* L. (Pinaceae), Cothill, Watsonian Berkshire (SU458990), 7 July 2016.

ANTHOCORIDAE

Anthocoris confusus Reuter

Oak, *Quercus* spp. (Fagaceae), Cowleaze Wood, Chiltern Hills, Oxfordshire (SU727958), 4 July 2016

Cardiastethus fasciiventris (Garbiglietti)

Larch, *Larix* spp. (Pinaceae), Buckland Warren, Stanford in the Vale, Watsonian Berkshire (SU339964), 15 July 2016

Pine, *Pinus* spp. (Pinaceae), Shotover Hill, Oxford, Oxfordshire (SP565062), 13 July 2016

Box, *Buxus sempervirens* L. (Buxaceae), University Parks, Oxford, Oxfordshire (SP514073), 7 August 2016.

Lawson's Cypress, *Chamaecyparis lawsoniana* (A. Murray bis) Parl. (Cupressaceae), University Parks, Oxford, Oxfordshire (SP514073), 7 August 2016.

MIRIDAE

Apolygus spinolae (Meyer-Dür)

Osier, *Salix viminalis* L. (Saliceae), University Parks, Oxford, Oxfordshire (SP519071), 3 July 2016.

Asciodema obsoleta (Fieber)

Gorse, *Ulex* spp. (Fabaceae), New Copse, Gallowstree Common, Chiltern Hills, Oxfordshire (SU685808), 7 June 2016.

MIRIDAE (CONTINUED)

Atractotomus magnicornis (Fallén)

Larch, *Larix* spp. (Pinaceae), Cowleaze Wood, Chiltern Hills, Oxfordshire (SU727958), 4 July 2016.

Atractotomus mali (Meyer-Dür)

Hawthorn, *Crataegus* spp. (Rosaceae), footpath near Burford, Oxfordshire (SP270105), 6 July 2016.

Calocoris alpestris (Meyer-Dür), Ramsons Bug

Ramsons, *Allium ursinum* L. (Amaryllidaceae), River Evenlode, Stonesfield, Oxfordshire (SP391154), 31 May 2016.

Deraeocoris flavilinea (A. Costa)

Larch, *Larix* spp. (Pinaceae), Cowleaze Wood, Chiltern Hills, Oxfordshire (SU727958), 4 July 2016.

Pinalitus cervinus (Herrich-Schaeffer)

Holly, *Ilex aquifolium* L. 'Crispa' (Aquifoliaceae), University Parks, Oxford, Oxfordshire (SP513071), 17 May 2016.

Psallus varians (Herrich-Schaeffer)

Holm Oak, *Quercus ilex* L. (Fagaceae), University Parks, Oxford, Oxfordshire (SP514072), 17 May 2016.

Heterotoma planicornis (Pallas)

Hawthorn, *Crataegus* spp. (Rosaceae), footpath near Burford, Oxfordshire (SP270105), 6 July 2016.

Osier, *Salix viminalis* L. (Saliceae), University Parks, Oxford, Oxfordshire (SP519071), 3 July 2016.

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THE 2016 HEMIPTERA-HETEROPTERA COUNTY RECORD ROUNDUP

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The new county records published in 2016, in journals outside the *Hemipterist*, are listed below. Those records already included in other articles in this journal are not listed.

ARADIDAE

Aradus depressus (Fabricius): Carlow (VCH13) (Nelson, 2016).

CYDNIDAE

Sehirus luctuosus Mulsant & Rey: Carlow (VCH13) (Nelson, 2016).

THYREOCORIDAE

Thyreocoris scarabaeoides (Linnaeus): Waterford (VCH6) (Nelson, 2016).

PENTATOMIDAE

- Dyroderes umbraculatus* (Fabricius): South Hampshire (VC11) (Bantock, 2016b).
Mecidea lindbergi Wagner: South Devon (VC3) & Dorset (VC9) (Bantock, 2016a). New to Britain.
Neottiglossa pusilla (Gmelin): Radnorshire (VC43) (Bantock, 2016b); West Gloucestershire (VC34) (Widgery, 2016).
Rhacognathus punctatus (Linnaeus): Oxfordshire (VC23) (Ryan, 2016a).

COREIDAE

- Gonocerus acuteangulatus* (Goeze): Dorset (VC9) (Bantock, 2016b).

STENOCEPHALIDAE

- Dicranocephalus medius* (Mulsant & Rey): North Hampshire (VC12) (Denton, 2016a).

RHOPALIDAE

- Brachycarenum tigrinus* (Schilling): Middlesex (VC21) (Jones, 2016).
Stictopleurus punctatonevrosus (Goeze): Bedfordshire (VC30) (Jones, 2016).

LYGAEIDAE

- Arocatus longiceps* Stål: Leicestershire (VC55) (Bantock, 2016b).
Beosus maritimus (Scopoli): South Hampshire (VC11) (Denton, 2016b).
Chilacis typhae (Perris): Caernarvonshire (VC49) & Anglesey (VC52) (Bratton, 2016).
Eremocoris fenestratus (Herrich-Schaeffer): Berkshire (VC22) (Cole & Sims, 2016).
Lasiosomus enervis (Herrich-Schaeffer): East Cornwall (VC2) (Alexander, 2016).
Megalonotus antennatus (Schilling): Derbyshire (VC57) (Flanagan, 2016).
Nysius huttoni F.B. White: Surrey (VC17) (Bantock, 2016b).
Peritrechus geniculatus (Hahn): East Gloucestershire (VC33) & West Gloucestershire (VC34) (Widgery, 2016).
Scolopostethus pictus (Schilling): Middlesex (VC21) (Boardman *et al.*, 2016).
Spilostethus pandurus (Scopoli): East Kent (VC15) (Kaunang, 2016). New to Britain.

PIESMATIDAE

- Parapiasma quadratum* (Fieber): Shropshire (VC40) (Fowler, 2016).

REDUVIIDAE

- Coranus subapterus* (De Geer): Shropshire (VC40) (Fowler, 2016).

MIRIDAE

- Conostethus venustus* (Fieber): Durham (VC66) (Flanagan, 2016).
Capsus wagneri (Remane): Nottinghamshire (VC56) (Hawkins, 2016).
Chlamydatus evanescens (Boheman): Worcestershire (VC37) (Whitehead (2016).
Deraeocoris flavilinea (A. Costa): South Northumberland (VC67) & Durham (VC66) (Flanagan, 2016).
Hallodapus rufescens (Burmeister): Westmeath (VCH23) (Nelson, 2016).
Lygus maritimus Wagner: Shropshire (VC40) (Fowler, 2016).
Macrolophus pygmaeus (Rambur): Armagh (VCH37) (Nelson, 2016).
Miridius quadrivirgatus (A. Costa): Oxfordshire (VC23) (Ryan, 2016b).
Orthotylus adenocarpus (Perris): Shropshire (VC40) (Fowler, 2016).
Orthotylus virens (Fallén): Scotland (VC72 & VC79) (Hewitt, 2016b).
Psallus anaemicus Seidenstucker: South Essex (VC18) (Bantock, 2016c); Surrey (VC17) & North Hampshire (VC12) (Denton, 2016c).
Teratocoris saundersi Douglas & Scott: Shropshire (VC40) (Fowler, 2016).

DIPSOCORIDAE

- Pachycoleus waltli* Fieber: Anglesey (VC52) (Bratton, 2016); Scotland (VC80) (Hewitt, 2016a).

SALDIDAE

- Chartoscirta cincta* (Herrich-Schaeffer): Anglesey (VC52) (Bratton, 2016).
Salda littoralis (Linnaeus): Anglesey (VC52) (Bratton, 2016).
Salda muelleri (Gmelin): East Cornwall (VC2) (Alexander, 2016).
Saldula c-album (Fieber): Caernarvonshire (VC49) (Bratton, 2016).
Saldula opacula (Zetterstedt): Caernarvonshire (VC49) & Anglesey (VC52) (Bratton, 2016).

NEPIDAE

- Ranatra linearis* (Linnaeus): Caernarvonshire (VC49) & Anglesey (VC52) (Bratton, 2016).

NOTONECTIDAE

- Notonecta maculata* Fabricius: Anglesey (VC52) (Bratton, 2016).

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THE DIVISION OF RYAN'S LIST OF HEMIPTERA-HETEROPTERA FOR KENT INTO VICE-COUNTY LISTS FOR VC15 AND VC16

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Introduction

The list of Hemiptera-Heteroptera for Kent in Ryan (2014) was compiled from that of Massee (1955) with additional records from the national entomological literature published in the six decades between these two papers. Ryan did not attempt to divide the county list into separate lists for the two constituent vice-counties, which are the basis of modern recording. The present paper addresses this shortcoming, providing separate lists for Watsonian East Kent (VC15) and Watsonian West Kent (VC16).

The vice-county records were interpreted by taking into account the name changes and confusions over identity documented in Ryan (2012, 2013, 2014, 2015, 2016a & 2016b). The resulting vice-county lists include 803 records, compared with 469 for the original Kent list. The list for Kent as a whole has lengthened by nine, the increase arising from eleven species added to the list and two deleted from it due to the known records being insufficiently precise to be allocated to a particular vice-county.

The lists for the two vice-counties, which will appear in the next edition of the county distribution, are presented below. The species that are new to Ryan's list for Kent are marked "[NEW]", and the deleted species are marked "[DELETED]". The numbers in brackets marking some of the records relate to the references from which they were derived, as indicated in Table 1. The unmarked records are from Massee (1962).

The divided records

ARADIDAE

<i>Aneurus avenius</i> (Dufour)	VC15	VC16
<i>Aneurus laevis</i> (Fabricius)	VC15	VC16
<i>Aradus aterrimus</i> Fieber	VC15	VC16
<i>Aradus corticalis</i> (Linnaeus)	-	VC16
<i>Aradus depressus</i> (Fabricius)	VC15	VC16

ACANTHOSOMATIDAE

<i>Acanthosoma haemorrhoidale</i> (Linnaeus)	VC15	VC16
<i>Cyphostethus tristriatus</i> (Fabricius)	-	VC16
<i>Elasmotethus interstinctus</i> (Linnaeus)	VC15	VC16
<i>Elasmucha grisea</i> (Linnaeus)	VC15	VC16

CYDNIDAE

<i>Adomerus biguttatus</i> (Linnaeus)	VC15	VC16
<i>Canthophorus impressus</i> (Horváth)	-	VC16
<i>Legnotus limbosus</i> (Geoffroy)	VC15	VC16
<i>Legnotus picipes</i> (Fallén)	VC15	VC16
<i>Sehirus luctuosus</i> Mulsant & Rey	VC15	VC16
<i>Tritomegas bicolor</i> (Linnaeus)	VC15	VC16
<i>Tritomegas sexmaculatus</i> (Rambur)	VC15 (8)	-

THYREOCORIDAE

<i>Thyreocoris scarabaeoides</i> (Linnaeus)	VC15	VC16
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SCUTELLERIDAE

<i>Eurygaster austriaca</i> (Schrank)	VC15	-
<i>Eurygaster maura</i> (Linnaeus)	VC15	VC16
<i>Eurygaster testudinaria</i> (Geoffroy)	VC15	VC16 (51)
<i>Odontoscelis fuliginosa</i> (Linnaeus)	VC15	-
<i>Odontoscelis lineola</i> Rambur	VC15	-

PENTATOMIDAE

<i>Aelia acuminata</i> (Linnaeus)	VC15	VC16
<i>Chlorochroa juniperina</i> (Linnaeus)	-	VC16
<i>Dolycoris baccarum</i> (Linnaeus)	VC15	VC16
<i>Eurydema dominulus</i> (Scopoli)	VC15	VC16
<i>Eurydema oleracea</i> (Linnaeus)	VC15	VC16
<i>Eysarcoris aeneus</i> (Scopoli)	VC15	-
<i>Eysarcoris venustissimus</i> (Schrank)	VC15	VC16
<i>Jalla dumosa</i> (Linnaeus)	VC15	-
<i>Neottiglossa pusilla</i> (Gmelin)	VC15	VC16
<i>Nezara viridula</i> (Linnaeus)	-	VC16 (33)
<i>Palomena prasina</i> (Linnaeus)	VC15	VC16
<i>Pentatoma rufipes</i> (Linnaeus)	VC15	VC16
<i>Peribalus strictus</i> (Fabricius)	VC15	VC16 (42)
<i>Picromerus bidens</i> (Linnaeus)	VC15	VC16
<i>Piezodorus lituratus</i> (Fabricius)	VC15	VC16
<i>Podops inunctus</i> (Fabricius)	VC15	VC16
<i>Rhacognathus punctatus</i> (Linnaeus)	VC15	VC16
<i>Rhaphigaster nebulosa</i> (Poda)	-	VC16 (9)
<i>Sciocoris cursitans</i> (Fabricius)	VC15	VC16
<i>Troilus luridus</i> (Fabricius)	VC15	VC16
<i>Zicrona caerulea</i> (Linnaeus)	VC15	VC16

COREIDAE

<i>Arenocoris fallenii</i> (Schilling)	VC15	-
<i>Arenocoris waltlii</i> (Herrich-Schaeffer)	VC15	-
<i>Bathysolen nubilus</i> (Fallén)	VC15	VC16
<i>Ceraleptus lividus</i> Stein	VC15	VC16
<i>Coreus marginatus</i> (Linnaeus)	VC15	VC16
<i>Coriomeris denticulatus</i> (Scopoli)	VC15	VC16
<i>Enoplops scapha</i> (Fabricius)	VC15	-
<i>Gonocerus acuteangulatus</i> (Goeze)	-	VC16 (23)
<i>Leptoglossus occidentalis</i> Heidemann	VC15 (12)	-
<i>Spathocera dalmanii</i> (Schilling)	VC15	-
<i>Syromastus rhombeus</i> (Linnaeus)	VC15	VC16

ALYDIDAE

<i>Alydus calcaratus</i> (Linnaeus)	VC15	VC16
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RHOPALIDAE

<i>Brachycarenum tigrinus</i> (Schilling)	-	VC16 (24)
<i>Chorosoma schillingii</i> (Schilling)	VC15	-
<i>Corizus hyoscyami</i> (Linnaeus)	VC15 (36)	VC16 (36)
<i>Liorhyssus hyalinus</i> (Fabricius)	-	VC16
<i>Myrmus miriformis</i> (Fallén)	VC15	VC16
<i>Rhopalus maculatus</i> (Fieber)	VC15	-
<i>Rhopalus parumpunctatus</i> Schilling	VC15	VC16
<i>Rhopalus subrufus</i> (Gmelin)	VC15	VC16

RHOPALIDAE (CONTINUED)

<i>Stictopleurus abutilon</i> (Rossi)	VC15 (14)	-
<i>Stictopleurus punctatonervosus</i> (Goeze)	-	VC16 (22)

STENOCEPHALIDAE

<i>Dicranocephalus agilis</i> (Scopoli)	VC15	-
<i>Dicranocephalus medius</i> (Mulsant & Rey)	VC15	VC16

LYGAEIDAE

<i>Acompus rufipes</i> (Wolff)	VC15	VC16
<i>Aphanus rolandri</i> (Linnaeus)	VC15	VC16
<i>Arocatus longiceps</i> Stål [NEW]	-	VC16 (52)
<i>Beosus maritimus</i> (Scopoli)	VC15	-
<i>Chilacis typhae</i> (Perris)	VC15	VC16
<i>Cymus aurescens</i> Distant	-	VC16
<i>Cymus claviculus</i> (Fallén)	VC15	VC16
<i>Cymus glandicolor</i> Hahn	VC15	VC16
<i>Cymus melanocephalus</i> Fieber	VC15	VC16
<i>Drymus brunneus</i> (R.F. Sahlberg)	VC15	VC16
<i>Drymus latus</i> Douglas & Scott	VC15	VC16 (43)
<i>Drymus pilicornis</i> (Mulsant & Rey)	VC15	VC16
<i>Drymus pilipes</i> Fieber	VC15	VC16
<i>Drymus pumilio</i> Puton	VC15	-
<i>Drymus ryeei</i> Douglas & Scott	VC15	VC16
<i>Drymus sylvaticus</i> (Fabricius)	VC15	VC16
<i>Emblethis denticollis</i> Horváth	VC15 (25)	-
<i>Emblethis griseus</i> (Wolff)	VC15	-
<i>Eremocoris abietis</i> (Linnaeus)	VC15	-
<i>Eremocoris plebejus</i> (Fallén)	VC15	-
<i>Eremocoris podagricus</i> (Fabricius)	VC15	VC16
<i>Gastrodes abietum</i> Bergroth	VC15	-
<i>Gastrodes grossipes</i> (De Geer)	VC15	VC16
<i>Graptopeltus lynceus</i> (Fabricius)	VC15	VC16
<i>Henestaris halophilus</i> (Burmeister)	VC15	VC16
<i>Henestaris laticeps</i> (Curtis)	VC15	-
<i>Heterogaster urticae</i> (Fabricius)	VC15	VC16
<i>Ischnocoris angustulus</i> (Boheman)	-	VC16
<i>Ischnodemus quadratus</i> Fieber	VC15 (34)	-
<i>Ischnodemus sabuleti</i> (Fallén)	VC15	VC16
<i>Kleidocerys ericae</i> (Horváth)	VC15	VC16
<i>Kleidocerys resedae</i> (Panzer)	VC15	VC16
<i>Lamproplax picea</i> (Flor)	-	VC16
<i>Lasiosomus enervis</i> (Herrich-Schaeffer)	VC15	-
<i>Macrodera microptera</i> (Curtis)	VC15	VC16
<i>Megalonotus antennatus</i> (Schilling)	VC15	VC16 (50)
<i>Megalonotus chiragra</i> (Fabricius)	VC15	VC16
<i>Megalonotus dilatatus</i> (Herrich-Schaeffer)	VC15	VC16
<i>Megalonotus emarginatus</i> (Rey)	VC15 (26)	VC16 (7)
<i>Megalonotus praetextatus</i> (Herrich-Schaeffer)	VC15	VC16
<i>Megalonotus sabulicola</i> (Thomson)	VC15	VC16
<i>Metopoplax ditomoides</i> (A. Costa)	-	VC16 (13)
<i>Nysius ericae</i> (Schilling)	-	VC16
<i>Nysius helveticus</i> (Herrich-Schaeffer)	-	VC16
<i>Nysius huttoni</i> F.B. White [DELETED]	-	-
<i>Nysius senecionis</i> (Schilling)	-	VC16 (18)

LYGAEIDAE (CONTINUED)

<i>Nysius thymi</i> (Wolff)	VC15	-
<i>Orsillus depressus</i> (Mulsant & Rey)	VC15 (32)	VC16 (4)
<i>Ortholomus punctipennis</i> (Herrich-Schaeffer)	VC15 (26)	-
<i>Pachybrachius fracticollis</i> (Schilling)	VC15	-
<i>Pachybrachius luridus</i> Hahn	VC15	-
<i>Peritrechus convivus</i> (Stål)	VC15	-
<i>Peritrechus geniculatus</i> (Hahn)	VC15	VC16
<i>Peritrechus gracilicornis</i> Puton	VC15	-
<i>Peritrechus lundii</i> (Gmelin)	VC15	VC16
<i>Peritrechus nubilus</i> (Fallén)	VC15	VC16
<i>Pionosomus varius</i> (Wolff)	VC15	-
<i>Plinthisus brevipennis</i> (Latreille)	VC15	VC16
<i>Raglius alboacuminatus</i> (Goeze)	VC15	VC16
<i>Rhyparochromus pini</i> (Linnaeus)	VC15	VC16
<i>Rhyparochromus vulgaris</i> (Schilling) [NEW]	VC15 (53)	-
<i>Scolopostethus affinis</i> (Schilling)	VC15	VC16
<i>Scolopostethus decoratus</i> (Hahn)	VC15	VC16
<i>Scolopostethus grandis</i> Horváth	VC15	VC16
<i>Scolopostethus pictus</i> (Schilling)	-	VC16
<i>Scolopostethus puberulus</i> Horváth	VC15	VC16
<i>Scolopostethus thomsoni</i> Reuter	VC15	VC16
<i>Stygnocoris fuliginus</i> (Geoffroy)	VC15	VC16
<i>Stygnocoris rusticus</i> (Fallén)	VC15	VC16
<i>Stygnocoris sabulosus</i> (Schilling)	VC15	VC16
<i>Taphropeltus contractus</i> (Herrich-Schaeffer)	VC15	VC16
<i>Taphropeltus hamulatus</i> (Thomson)	-	VC16
<i>Trapezonotus arenarius</i> (Linnaeus)	VC15	VC16
<i>Trapezonotus dispar</i> Stål	VC15	VC16
<i>Tropistethus holosericus</i> (Scholtz)	VC15	VC16 (43)

BERYTIDAE

<i>Berytinus clavipes</i> (Fabricius)	VC15	VC16 (44)
<i>Berytinus crassipes</i> (Herrich-Schaeffer)	VC15	VC16
<i>Berytinus hirticornis</i> (Brullé)	VC15 (15)	-
<i>Berytinus minor</i> (Herrich-Schaeffer)	VC15	VC16
<i>Berytinus montivagus</i> (Meyer-Dür)	VC15	VC16
<i>Berytinus signoreti</i> (Fieber)	VC15	VC16
<i>Gampsocoris punctipes</i> (Germar)	VC15	VC16
<i>Metatropis rufescens</i> (Herrich-Schaeffer)	-	VC16
<i>Neides tipularius</i> (Linnaeus)	VC15	VC16

PIESMATIDAE

<i>Parapiesma quadratum</i> (Fieber)	VC15	VC16
<i>Piesma maculatum</i> (Laporte)	VC15	VC16

TINGIDAE

<i>Acalypta brunnea</i> (Germar)	-	VC16
<i>Acalypta carinata</i> (Panzer)	-	VC16
<i>Acalypta parvula</i> (Fallén)	VC15	VC16
<i>Acalypta platycheila</i> (Fieber)	-	VC16
<i>Agramma laetum</i> (Fallén)	VC15	VC16
<i>Campylosteira verna</i> (Fallén)	VC15	VC16
<i>Catoplatus fabricii</i> (Stål)	VC15	VC16
<i>Derephysia foliacea</i> (Fallén)	VC15	VC16

TINGIDAE (CONTINUED)

<i>Dictyla convergens</i> (Herrich-Schaeffer)	-	VC16
<i>Dictyonota fuliginosa</i> A. Costa	VC15	VC16
<i>Dictyonota strichnocera</i> Fieber	VC15	VC16
<i>Kalama tricornis</i> (Schrank)	VC15	VC16
<i>Oncochila simplex</i> (Herrich-Schaeffer)	VC15	VC16
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	VC15	VC16
<i>Physatocheila smreczynskii</i> China	-	VC16
<i>Stephanitis rhododendri</i> Horváth	VC15	VC16
<i>Tingis ampliata</i> (Herrich-Schaeffer)	VC15	VC16
<i>Tingis angustata</i> (Herrich-Schaeffer)	-	VC16
<i>Tingis cardui</i> (Linnaeus)	VC15	VC16
<i>Tingis reticulata</i> Herrich-Schaeffer	VC15	VC16

REDUVIIDAE

<i>Empicoris culiciformis</i> (De Geer)	VC15	VC16
<i>Empicoris vagabundus</i> (Linnaeus)	VC15	VC16
<i>Reduvius personatus</i> (Linnaeus)	VC15	VC16

NABIDAE

<i>Himacerus apterus</i> (Fabricius)	VC15	VC16
<i>Himacerus boops</i> (Schjødte)	VC15	VC16
<i>Himacerus major</i> (A. Costa)	VC15	VC16
<i>Himacerus mirmicoides</i> (O. Costa)	VC15	VC16
<i>Nabis brevis</i> Scholtz	VC15	-
<i>Nabis ericetorum</i> Scholtz	VC15	VC16
<i>Nabis ferox</i> (Linnaeus)	VC15	VC16
<i>Nabis flavomarginatus</i> Scholtz	VC15	VC16
<i>Nabis limbatus</i> Dahlbom	VC15	VC16
<i>Nabis lineatus</i> Dahlbom	VC15	VC16
<i>Nabis pseudoferus</i> Remane	VC15	-
<i>Nabis rugosus</i> (Linnaeus)	VC15	VC16
<i>Prostemma guttula</i> (Fabricius)	VC15	VC16

ANTHOCORIDAE

<i>Acompocoris alpinus</i> Reuter	VC15	VC16
<i>Acompocoris pygmaeus</i> (Fallén)	VC15	VC16
<i>Amphiareus constrictus</i> (Stål) [NEW]	-	VC16 (49)
<i>Anthocoris butleri</i> Le Quesne	-	VC16
<i>Anthocoris confusus</i> Reuter	VC15	VC16
<i>Anthocoris gallarumulmi</i> (De Geer)	VC15	VC16
<i>Anthocoris limbatus</i> Fieber	VC15	VC16
<i>Anthocoris minki</i> Dohrn	-	VC16 (21)
<i>Anthocoris nemoralis</i> (Fabricius)	VC15	VC16
<i>Anthocoris nemorum</i> (Linnaeus)	VC15	VC16
<i>Anthocoris sarothamni</i> Douglas & Scott	VC15	VC16
<i>Anthocoris simulans</i> Reuter	-	VC16
<i>Anthocoris visci</i> Douglas	-	VC16
<i>Brachysteles parvicornis</i> (A. Costa)	-	VC16
<i>Cardiastethus fasciiventris</i> (Garbiglietti)	VC15	VC16
<i>Dufouriellus ater</i> (Dufour)	VC15	VC16
<i>Elatophilus nigricornis</i> (Zetterstedt)	-	VC16
<i>Lyctocoris campestris</i> (Fabricius)	VC15	VC16
<i>Orius laevigatus</i> (Fieber)	VC15	VC16
<i>Orius laticollis</i> (Reuter)	VC15 (39)	-

ANTHOCORIDAE (CONTINUED)

<i>Orius majusculus</i> (Reuter)	VC15	VC16
<i>Orius niger</i> (Wolff)	VC15	VC16
<i>Orius vicinus</i> (Ribaut)	VC15 (17)	-
<i>Temnostethus gracilis</i> Horváth	VC15	VC16
<i>Temnostethus pusillus</i> (Herrich-Schaeffer)	VC15	VC16
<i>Temnostethus tibialis</i> Reuter	-	VC16 (3)
<i>Tetraphleps bicuspis</i> (Herrich-Schaeffer)	VC15	VC16
<i>Xylocoridea brevipennis</i> Reuter	-	VC16
<i>Xylocoris cursitans</i> (Fallén)	VC15	VC16
<i>Xylocoris formicetorum</i> (Boheman)	-	VC16
<i>Xylocoris galactinus</i> (Fieber)	VC15	VC16

CIMICIDAE

<i>Cimex lectularius</i> Linnaeus	VC15	VC16
<i>Cimex pipistrelli</i> Jenyns	VC15	-
<i>Oeciacus hirundinis</i> (Lamarck)	VC15	VC16

MICROPHYSIDAE

<i>Loricula coleoptrata</i> (Fallén) [NEW]	-	VC16 (45)
<i>Loricula distinguenda</i> (Reuter)	VC15	VC16
<i>Loricula elegantula</i> (Baerensprung)	VC15	VC16
<i>Loricula exilis</i> (Fallén)	-	VC16
<i>Loricula pselaphiformis</i> Curtis	VC15	VC16

MIRIDAE

<i>Acetropis gimmerthalii</i> (Flor)	VC15	VC16
<i>Adelphocoris lineolatus</i> (Goeze)	VC15	VC16
<i>Adelphocoris seticornis</i> (Fabricius)	VC15	VC16
<i>Alloeotomus gothicus</i> (Fallén)	VC15	VC16
<i>Amblytylus brevicollis</i> Fieber	-	VC16
<i>Amblytylus nasutus</i> (Kirschbaum)	VC15	VC16
<i>Apolygus lucorum</i> (Meyer-Dür)	VC15	VC16
<i>Apolygus spinolae</i> (Meyer-Dür)	VC15	VC16
<i>Asciodema obsoleta</i> (Fieber)	-	VC16
<i>Atractotomus magnicornis</i> (Fallén)	VC15	VC16
<i>Atractotomus mali</i> (Meyer-Dür)	VC15	VC16
<i>Blepharidopterus angulatus</i> (Fallén)	VC15	VC16
<i>Blepharidopterus diaphanus</i> (Kirschbaum)	VC15	VC16
<i>Bothynotus pilosus</i> (Boheman)	VC15	-
<i>Brachyarthrum limitatum</i> Fieber	VC15	VC16
<i>Bryocoris pteridis</i> (Fallén)	VC15	VC16
<i>Calocoris roseomaculatus</i> (De Geer)	VC15	VC16
<i>Camptozygum aequale</i> (Villers)	VC15	VC16
<i>Campylomma annulicorne</i> (Signoret)	-	VC16 (2)
<i>Campylomma verbasci</i> (Meyer-Dür)	-	VC16
<i>Campyloneura virgula</i> (Herrich-Schaeffer)	VC15	VC16
<i>Capsodes flavomarginatus</i> (Donovan)	VC15	VC16
<i>Capsodes gothicus</i> (Linnaeus)	-	VC16
<i>Capsus ater</i> (Linnaeus)	VC15	VC16
<i>Charagochilus gyllenhalii</i> (Fallén)	VC15	VC16
<i>Chlamydatus pullus</i> (Reuter)	VC15	VC16
<i>Chlamydatus saltitans</i> (Fallén)	VC15	VC16
<i>Closterotomus fulvomaculatus</i> (De Geer)	VC15	VC16
<i>Closterotomus norwegicus</i> (Gmelin)	VC15	VC16

MIRIDAE (CONTINUED)

<i>Compsidolon salicellum</i> (Herrich-Schaeffer)	VC15	VC16
<i>Conostethus griseus</i> Douglas & Scott	-	VC16
<i>Conostethus roseus</i> (Fallén)	VC15	VC16
<i>Cyllecoris histrionius</i> (Linnaeus)	VC15	VC16
<i>Cyrtorhinus caricus</i> (Fallén)	-	VC16
<i>Deraeocoris flavilinea</i> (A. Costa)	VC15 (32)	-
<i>Deraeocoris lutescens</i> (Schilling)	VC15	VC16
<i>Deraeocoris olivaceus</i> (Fabricius)	-	VC16 (5)
<i>Deraeocoris ruber</i> (Linnaeus)	VC15	VC16
<i>Deraeocoris scutellaris</i> (Fabricius)	-	VC16
<i>Dichrooscytus gustavi</i> Josifov	-	VC16
<i>Dichrooscytus rufipennis</i> (Fallén)	-	VC16
<i>Dicyphus annulatus</i> (Wolff)	VC15	VC16
<i>Dicyphus constrictus</i> (Boheman)	-	VC16
<i>Dicyphus epilobii</i> Reuter	VC15	VC16
<i>Dicyphus errans</i> (Wolff)	VC15	VC16
<i>Dicyphus globulifer</i> (Fallén)	VC15	VC16
<i>Dicyphus pallicornis</i> (Fieber)	-	VC16
<i>Dicyphus pallidus</i> (Herrich-Schaeffer)	-	VC16 (31)
<i>Dicyphus stachydis</i> J. Sahlberg	VC15	VC16
<i>Dicyphus tamaninii</i> Wagner [NEW]	-	VC16 (41)
<i>Dryophilocoris flavoquadrimaculatus</i> (De Geer)	VC15	VC16
<i>Fieberocapsus flaveolus</i> (Reuter)	VC15	-
<i>Globiceps flavomaculatus</i> (Fabricius)	VC15	VC16
<i>Globiceps fulvicollis</i> Jakovlev	VC15	VC16
<i>Grypocoris stysi</i> (Wagner)	VC15	VC16
<i>Hadrodemus m-flavum</i> (Goeze)	VC15	-
<i>Hallodapus montandoni</i> Reuter	VC15	VC16
<i>Hallodapus rufescens</i> (Burmeister)	VC15	VC16
<i>Halticus apterus</i> (Linnaeus)	VC15	VC16
<i>Halticus luteicollis</i> (Panzer)	VC15	VC16
<i>Halticus saltator</i> (Geoffroy)	-	VC16
<i>Harpocera thoracica</i> (Fallén)	VC15	VC16
<i>Heterocordylus genistae</i> (Scopoli)	-	VC16
<i>Heterocordylus tibialis</i> (Hahn)	VC15	VC16
<i>Heterotoma planicornis</i> (Pallas)	VC15	VC16
<i>Hoplomachus thunbergii</i> (Fallén)	VC15	VC16
<i>Leptopterna dolabrata</i> (Linnaeus)	VC15	VC16
<i>Leptopterna ferrugata</i> (Fallén)	VC15	VC16
<i>Liocoris tripustulatus</i> (Fabricius)	VC15	VC16
<i>Lopus decolor</i> (Fallén)	VC15	VC16
<i>Lygocoris pabulinus</i> (Linnaeus)	VC15	VC16
<i>Lygocoris rugicollis</i> (Fallén)	VC15	VC16
<i>Lygus maritimus</i> Wagner [NEW]	VC15 (40)	-
<i>Lygus pratensis</i> (Linnaeus)	VC15 (37)	VC16 (37)
<i>Lygus rugulipennis</i> Poppius	VC15	VC16
<i>Macrolophus pygmaeus</i> (Rambur)	-	VC16
<i>Macrolophus rubi</i> Woodroffe	VC15 (28)	-
<i>Macrotylus horvathi</i> (Reuter)	VC15 (19)	VC16 (51)
<i>Macrotylus paykullii</i> (Fallén)	VC15	VC16
<i>Macrotylus solitarius</i> (Meyer-Dür)	-	VC16
<i>Malacocoris chlorizans</i> (Panzer)	VC15	VC16
<i>Mecomma ambulans</i> (Fallén)	VC15	VC16
<i>Megacoelum beckeri</i> (Fieber)	-	VC16

MIRIDAE (CONTINUED)

<i>Megacoelum infusum</i> (Herrich-Schaeffer)	VC15	VC16
<i>Megaloceroea recticornis</i> (Geoffroy)	VC15	VC16
<i>Megalocoleus molliculus</i> (Fallén)	VC15	VC16
<i>Megalocoleus tanacetii</i> (Fallén)	VC15	VC16
<i>Miridius quadrivirgatus</i> (A. Costa)	VC15	VC16
<i>Miris striatus</i> (Linnaeus)	VC15	VC16
<i>Monalocoris filicis</i> (Linnaeus)	VC15	VC16
<i>Monosynamma maritimum</i> (Wagner)	VC15 (38)	-
<i>Monosynamma sabulicola</i> (Wagner)	VC15 (38)	-
<i>Neolygus contaminatus</i> (Fallén)	VC15	VC16
<i>Neolygus viridis</i> (Fallén)	VC15	VC16
<i>Notostira elongata</i> (Geoffroy)	VC15	VC16
<i>Oncotylus viridiflavus</i> (Goeze)	VC15	VC16
<i>Orthocephalus coriaceus</i> (Fabricius)	VC15	VC16
<i>Orthocephalus saltator</i> (Hahn)	VC15	VC16
<i>Orthonotus rufifrons</i> (Fallén)	VC15	VC16
<i>Orthops basalis</i> (A. Costa)	VC15 (17)	-
<i>Orthops campestris</i> (Linnaeus)	VC15 (17)	-
<i>Orthops kalmii</i> (Linnaeus) [DELETED]	-	-
<i>Orthotylus adenocarpi</i> (Perris)	VC15	VC16
<i>Orthotylus bilineatus</i> (Fallén)	VC15	VC16
<i>Orthotylus concolor</i> (Kirschbaum)	-	VC16
<i>Orthotylus ericetorum</i> (Fallén)	VC15	VC16
<i>Orthotylus flavinervis</i> (Kirschbaum)	VC15	VC16
<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	VC15	VC16
<i>Orthotylus marginalis</i> Reuter	VC15	VC16
<i>Orthotylus moncreaffi</i> (Douglas & Scott)	VC15	VC16
<i>Orthotylus nassatus</i> (Fabricius)	-	VC16
<i>Orthotylus ochrotrichus</i> Fieber	VC15	VC16
<i>Orthotylus prasinus</i> (Fallén)	-	VC16
<i>Orthotylus rubidus</i> (Puton)	VC15	VC16
<i>Orthotylus tenellus</i> (Fallén)	VC15 (16)	VC16 (47)
<i>Orthotylus virescens</i> (Douglas & Scott)	VC15	VC16
<i>Orthotylus viridinervis</i> (Kirschbaum)	-	VC16
<i>Pachytomella parallela</i> (Meyer-Dür)	-	VC16
<i>Pantilius tunicatus</i> (Fabricius)	VC15	VC16
<i>Parapsallus vitellinus</i> (Scholtz)	VC15 (35)	-
<i>Phoenicocoris obscurellus</i> (Fallén)	-	VC16
<i>Phylus coryli</i> (Linnaeus)	VC15	VC16
<i>Phylus melanocephalus</i> (Linnaeus)	VC15	VC16
<i>Phytocoris dimidiatus</i> Kirschbaum	VC15	VC16
<i>Phytocoris insignis</i> Reuter	VC15	-
<i>Phytocoris longipennis</i> Flor	-	VC16
<i>Phytocoris populi</i> (Linnaeus)	VC15	VC16
<i>Phytocoris reuteri</i> Saunders	-	VC16
<i>Phytocoris tiliae</i> (Fabricius)	VC15	VC16
<i>Phytocoris ulmi</i> (Linnaeus)	VC15	VC16
<i>Phytocoris varipes</i> Boheman	VC15	VC16
<i>Pilophorus cinnamopterus</i> (Kirschbaum)	VC15	VC16
<i>Pilophorus clavatus</i> (Linnaeus)	VC15	VC16
<i>Pilophorus perplexus</i> Douglas & Scott	VC15	VC16
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	VC15	VC16
<i>Pinalitus rubricatus</i> (Fallén)	VC15	VC16
<i>Pinalitus viscicola</i> (Puton)	VC15	VC16

MIRIDAE (CONTINUED)

<i>Pithanus maerkelii</i> (Herrich-Schaeffer)	VC15	VC16
<i>Plagiognathus arbustorum</i> (Fabricius)	VC15	VC16
<i>Plagiognathus chrysanthemi</i> (Wolff)	VC15	VC16
<i>Platycranus bicolor</i> (Douglas & Scott)	-	VC16
<i>Plesiodema pinetella</i> (Zetterstedt)	-	VC16
<i>Polymerus nigrita</i> (Fallén)	VC15	VC16
<i>Polymerus palustris</i> (Reuter)	VC15	-
<i>Polymerus unifasciatus</i> (Fabricius)	VC15	VC16
<i>Psallodema fieberi</i> (Fieber)	VC15	VC16
<i>Psallus albicinctus</i> (Kirschbaum)	-	VC16
<i>Psallus ambiguus</i> (Fallén)	VC15	VC16
<i>Psallus anaemicus</i> Seidenstucker [NEW]	-	VC16 (52)
<i>Psallus assimilis</i> Stichel	VC15	-
<i>Psallus confusus</i> Rieger [NEW]	VC15	VC16
<i>Psallus falleni</i> Reuter	VC15	VC16
<i>Psallus flavellus</i> Stichel	VC15	VC16
<i>Psallus haematodes</i> (Gmelin)	VC15	VC16
<i>Psallus helenae</i> Josifov [NEW]	-	VC16 (52)
<i>Psallus lepidus</i> Fieber	VC15	VC16
<i>Psallus lucanicus</i> Wagner [NEW]	-	VC16 (52)
<i>Psallus mollis</i> (Mulsant & Rey)	VC15	-
<i>Psallus perrisi</i> (Mulsant & Rey)	VC15	VC16
<i>Psallus quercus</i> (Kirschbaum)	VC15	VC16
<i>Psallus salicis</i> (Kirschbaum)	VC15	VC16
<i>Psallus variabilis</i> (Fallén)	VC15	VC16
<i>Psallus varians</i> (Herrich-Schaeffer)	VC15	VC16
<i>Psallus wagneri</i> Ossiannilsson	VC15	-
<i>Pseudoloxops coccineus</i> (Meyer-Dür)	-	VC16
<i>Rhabdomiris striatellus</i> (Fabricius)	VC15	VC16
<i>Salicarus roseri</i> (Herrich-Schaeffer)	VC15	VC16
<i>Stenodema calcarata</i> (Fallén)	VC15	VC16
<i>Stenodema holsata</i> (Fabricius)	VC15	VC16
<i>Stenodema laevigata</i> (Linnaeus)	VC15	VC16
<i>Stenodema trispinosa</i> Reuter	VC15	VC16
<i>Stenotus binotatus</i> (Fabricius)	VC15	VC16
<i>Sthenarus rotermundi</i> (Scholtz)	VC15	VC16
<i>Strongylocoris leucocephalus</i> (Linnaeus)	VC15	VC16 (46)
<i>Strongylocoris luridus</i> (Fallén)	VC15 (28)	-
<i>Systellonotus triguttatus</i> (Linnaeus)	VC15	VC16
<i>Teratocoris antennatus</i> (Boheman)	VC15	VC16
<i>Teratocoris saundersi</i> Douglas & Scott	VC15	-
<i>Tinicephalus hortulanus</i> (Meyer-Dür)	VC15	VC16
<i>Trigonotylus caelestialium</i> (Kirkaldy)	-	VC16 (6)
<i>Trigonotylus psammaecolor</i> Reuter	VC15	-
<i>Trigonotylus ruficornis</i> (Geoffroy) [NEW]	-	VC16 (6)
<i>Tupiocoris rhododendri</i> (Dolling)	-	VC16 (1)
<i>Tuponia mixticolor</i> (A. Costa)	VC15 (10)	-
<i>Tytthus pubescens</i> (Knight)	-	VC16
<i>Tytthus pygmaeus</i> (Zetterstedt)	VC15	VC16

CERATOCOMBIDAE

<i>Ceratocombus coleopratus</i> (Zetterstedt)	VC15	VC16
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SALDIDAE

<i>Chartoscirta cincta</i> (Herrich-Schaeffer)	VC15	VC16
<i>Chartoscirta cocksii</i> (Curtis)	VC15	VC16
<i>Chartoscirta elegantula</i> (Fallén)	-	VC16
<i>Chiloxanthus pilosus</i> (Fallén)	VC15	-
<i>Halosalda lateralis</i> (Fallén)	VC15	-
<i>Micracanthia marginalis</i> (Fallén)	VC15	-
<i>Salda littoralis</i> (Linnaeus)	VC15	VC16
<i>Saldula arenicola</i> (Scholtz)	VC15 (27)	-
<i>Saldula opacula</i> (Zetterstedt)	-	VC16 (27)
<i>Saldula orthochila</i> (Fieber)	VC15	VC16
<i>Saldula pilosella</i> (Thomson)	VC15	VC16
<i>Saldula saltatoria</i> (Linnaeus)	VC15	VC16

MESOVELIIDAE

<i>Mesovelia furcata</i> Mulsant & Rey	VC15	VC16
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HEBRIDAE

<i>Hebrus pusillus</i> (Fallén)	VC15 (20)	VC16
<i>Hebrus ruficeps</i> Thomson	VC15	VC16

HYDROMETRIDAE

<i>Hydrometra stagnorum</i> (Linnaeus)	VC15	VC16
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VELIIDAE

<i>Microvelia pygmaea</i> (Dufour)	VC15 (20)	VC16 (27)
<i>Microvelia reticulata</i> (Burmeister)	VC15	VC16
<i>Velia caprai</i> Tamanini	VC15	VC16

GERRIDAE

<i>Aquarius najas</i> (De Geer)	VC15	VC16
<i>Aquarius paludum</i> (Fabricius)	-	VC16
<i>Gerris argentatus</i> Schummel	VC15	VC16
<i>Gerris gibbifer</i> Schummel	VC15 (20)	VC16
<i>Gerris lacustris</i> (Linnaeus)	VC15	VC16
<i>Gerris odontogaster</i> (Zetterstedt)	VC15	VC16
<i>Gerris thoracicus</i> Schummel	VC15	VC16
<i>Limnopus rufoscutellatus</i> (Latreille)	-	VC16

NEPIDAE

<i>Nepa cinerea</i> Linnaeus	VC15	VC16
<i>Ranatra linearis</i> (Linnaeus)	VC15	VC16

NAUCORIDAE

<i>Ilyocoris cimicoides</i> (Linnaeus)	VC15	VC16
<i>Naucoris maculatus</i> Fabricius	VC15 (30)	VC16 (20)

APHELOCHEIRIDAE

<i>Aphelocheirus aestivalis</i> (Fabricius)	VC15 (29)	VC16 (20)
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NOTONECTIDAE

<i>Notonecta glauca</i> Linnaeus	VC15	VC16
<i>Notonecta maculata</i> Fabricius	VC15	VC16
<i>Notonecta obliqua</i> Thunberg	VC15	VC16 (48)
<i>Notonecta viridis</i> Delcourt	VC15	VC16

PLEIDAE

<i>Plea minutissima</i> Leach	VC15	VC16
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CORIXIDAE

<i>Arctocorisa germari</i> (Fieber)	VC15	-
<i>Callicorixa praeusta</i> (Fieber)	VC15	VC16
<i>Corixa affinis</i> Leach	VC15	VC16
<i>Corixa dentipes</i> Thomson	VC15 (20)	-
<i>Corixa panzeri</i> Fieber	VC15	VC16
<i>Corixa punctata</i> (Illiger)	VC15	VC16
<i>Cymatia bondsdorffii</i> (C.R. Sahlberg)	VC15	-
<i>Cymatia coleoptrata</i> (Fabricius)	VC15	VC16
<i>Hesperocorixa castanea</i> (Thomson)	-	VC16
<i>Hesperocorixa linnaei</i> (Fieber)	VC15	VC16
<i>Hesperocorixa moesta</i> (Fieber)	VC15	VC16
<i>Hesperocorixa sahlbergi</i> (Fieber)	VC15	VC16
<i>Micronecta poweri</i> (Douglas & Scott)	-	VC16
<i>Micronecta scholtzi</i> (Fieber)	VC15 (20)	VC16
<i>Paracorixa concinna</i> (Fieber)	VC15	VC16
<i>Sigara distincta</i> (Fieber)	VC15	VC16
<i>Sigara dorsalis</i> (Leach)	VC15	VC16
<i>Sigara falleni</i> (Fieber)	VC15	VC16
<i>Sigara fossarum</i> (Leach)	VC15	VC16
<i>Sigara iactans</i> Jansson	VC15 (11)	-
<i>Sigara lateralis</i> (Leach)	VC15	VC16
<i>Sigara limitata</i> (Fieber)	VC15	VC16
<i>Sigara nigrolineata</i> (Fieber)	VC15	VC16
<i>Sigara selecta</i> (Fieber)	VC15	VC16
<i>Sigara semistriata</i> (Fieber)	VC15	VC16
<i>Sigara stagnalis</i> (Leach)	VC15	VC16
<i>Sigara striata</i> (Linnaeus)	VC15	-
<i>Sigara venusta</i> (Douglas & Scott)	VC15 (20)	-

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(2) Allen (1984)	(29) Massee (1965b)
(3) Allen (1990)	(30) Nau & Brooke (2005)
(4) Allen (1992)	(31) Nau (2010)
(5) Allen (1993a)	(32) Philp (2006)
(6) Allen (1993b)	(33) Salisbury et al. (2009)
(7) Aukema & Nau (1992)	(34) Scudder (1957)
(8) Bantock (2012)	(35) Side (1973)
(9) Bantock et al. (2011)	(36) Whitehead (2008)
(10) Barclay & Nau (2003)	(37) Woodroffe (1966)
(11) Brooke (2010)	(38) Woodroffe (1967)
(12) Clancy (2009)	(39) Woodroffe (1971)
(13) Clemons (1998)	(40) Ryan (2016c)
(14) Dolling (1978)	(41) Ryan (2016d)
(15) Dolling (1983)	(42) Groves (1964)
(16) Felton (1963)	(43) Groves (1965)
(17) Greenslade et al. (2013)	(44) Groves (1966)
(18) Hodge (1997)	(45) Groves (1967)
(19) Hodge (2006)	(46) Groves (1969)
(20) Huxley (2003)	(47) Groves (1972)
(21) Jones (2000a)	(48) Groves (1983)
(22) Jones (2000b)	(49) Allen (1956)
(23) Jones (2003)	(50) Jones (2016)
(24) Jones (2007)	(51) Hawkins (2016)
(25) Judd (1997)	(52) Denton (2016)
(26) Judd (1998)	(53) Witts (2016)
(27) Kirby (1994)	

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AN UP-TO-DATE LIST OF COUNTY RECORDS NOW AVAILABLE ONLINE

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The previous article under this title (Ryan, 2016) announced that an up-to-date Excel spreadsheet of county records would be put on the internet with the publication of each issue of this journal. The spreadsheet is flexible in that it can be ordered to give species lists for each county, as well as county lists for each species. However, in my own use, I have found that a Word version of the latter arrangement was more practical and all that I needed. So, I will be putting this on the internet as well, from this issue onwards. The document can be downloaded from the webpage of the Atlas of the Hemiptera-Heteroptera of the British Isles (<https://sites.google.com/site/britishhetbugatlas>) by clicking on the link provided.

Reference

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**NEW COUNTY RECORDS OF HEMIPTERA-HETEROPTERA
FROM NATIONAL TRUST SITES IN EAST ANGLIA**

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SW recently sent RPR an Excel spreadsheet containing 4512 records of Hemiptera-Heteroptera from National Trust owned sites in East Anglia, which he checked against the county distribution (Ryan 2014a & 2014b). The data set was found to contain 37 new county records, which are listed below. Full details of the records are available from the NBN Gateway or from SW.

Aneurus laevis (Fabricius) (Aradidae)

CAMBRIDGESHIRE (VC29): 01/11/2010, TL563702, Wicken Fen: St Edmund's Fen: Compartment 31: By Drove 94.

Stictopleurus punctatonervosus (Goeze) (Rhopalidae)

CAMBRIDGESHIRE (VC29): 18/05/2002, TL564706, Wicken Fen: Car-park.

Cymus claviculus (Fallén) (Lygaeidae)

CAMBRIDGESHIRE (VC29): 18/05/2002, TL551698, Wicken Fen: Adventurers' Fen: Compartment 48: Lode Bank west.

Drymus latus Douglas & Scott (Lygaeidae)

CAMBRIDGESHIRE (VC29): 17/08/1997, TL561704, Wicken Fen: Sedge Fen: Compartment 19.

Drymus pumilio Puton (Lygaeidae)

CAMBRIDGESHIRE (VC29): 21/08/2012, TL558700, Wicken Fen: Adventurers' Fen: The Mere, NE.

Nysius ericae (Schilling) (Lygaeidae)

CAMBRIDGESHIRE (VC29): 09/07/2003, TL349519, Wimpole: Pond Field, west boundary.

Nysius senecionis (Schilling) (Lygaeidae)

CAMBRIDGESHIRE (VC29): 18/05/2002, TL564706, Wicken Fen: Car-park.

Trapezonotus dispar Stål (Lygaeidae)

CAMBRIDGESHIRE (VC29): 29/05/2008, TL338478, Wimpole: South Avenue, hedge site 5.

Parapiesma quadratum (Fieber) (Piesmatidae)

CAMBRIDGESHIRE (VC29): 13/05/2013, TL549697, Wicken Fen: Adventurers' Fen: Compartment 53 (Reedbed), N.

Acalypta carinata (Panzer) (Tingidae)

CAMBRIDGESHIRE (VC29): 18/06/2000, TL346515, Wimpole: Cobbs Wood, SAM ditch.

Anthocoris simulans Reuter (Anthocoridae)

CAMBRIDGESHIRE (VC29): 08/09/2013, TL555694, Wicken Fen: Adventurers' Fen: Compartment 42, east.

SUFFOLK (VC26): 27/05/1988, TL816620, Ickworth: Horringer Park.

Brachysteles parvicornis (A. Costa) (Anthocoridae)

CAMBRIDGESHIRE (VC29): 11/05/2001, TL348514, Wimpole: Cobbs Wood.

Orius laticollis (Reuter) (Anthocoridae)

CAMBRIDGESHIRE (VC29): 15/09/2004, TL561701, Wicken Fen: Poor's Fen: Monk's Lode bank.

Orius vicinus (Ribaut) (Anthocoridae)

CAMBRIDGESHIRE (VC29): 09/07/2003, TL350521, Wimpole: Pond Field, north boundary.

Xylocoris cursitans (Fallén) (Anthocoridae)

CAMBRIDGESHIRE (VC29): 10/09/1986, TL3350, Wimpole: Park & Estate, south.

Xylocoris galactinus (Fieber) (Anthocoridae)

CAMBRIDGESHIRE (VC29): 08/07/1989, TL564706, Wicken Fen: Car-park.

Loricula distinguenda (Reuter) (Microphysidae)

CAMBRIDGESHIRE (VC29): 03/07/2011, TL553701, Wicken Fen: Verrall's Fen: Compartment 5, east.

Deraeocoris scutellaris (Fabricius) (Miridae)

CAMBRIDGESHIRE (VC29): 08/07/1989, TL5570, Wicken Fen.

Grypocoris stysi (Wagner) (Miridae)

CAMBRIDGESHIRE (VC29): 1963 - 1972, TL5570, Wicken Fen.

Lygus maritimus Wagner (Miridae)

CAMBRIDGESHIRE (VC29): 09/07/2003, TL352524, Wimpole: Mare Way.

Neolygus viridis (Fallén) (Miridae)

CAMBRIDGESHIRE (VC29): 24/07/1999, TL5570, Wicken Fen: Sedge Fen.

Orthotylus ochrotrichus Fieber (Miridae)

CAMBRIDGESHIRE (VC29): 27/07/1984, TL555706, Wicken Fen: Sedge Fen: Compartment 10.

Orthotylus prasinus (Fallén) (Miridae)

CAMBRIDGESHIRE (VC29): 27/07/1984, TL555706, Wicken Fen: Sedge Fen: Compartment 10.

Phytocoris dimidiatus Kirschbaum (Miridae)

CAMBRIDGESHIRE (VC29): 12/08/1984, TL5570, Wicken Fen: Sedge Fen.

Pinalitus rubricatus (Fallén) (Miridae)

CAMBRIDGESHIRE (VC29): 17/09/2008, TL561704, Wicken Fen: Sedge Fen: Compartment 19.

Placochilus seladonicus (Fallén) (Miridae)

CAMBRIDGESHIRE (VC29): 09/07/2003, TL360510, Wimpole: First Field, by ditch.

Polymerus palustris (Reuter) (Miridae)

CAMBRIDGESHIRE (VC29): 19/07/2007, TL562706, Wicken Fen: Little Breed Fen: Compartment 22.

Psallus assimilis Stichel (Miridae)

CAMBRIDGESHIRE (VC29): 09/07/2003, TL340524, Wimpole: Gravel Pits Field, north boundary.

Psallus flavellus Stichel (Miridae)

CAMBRIDGESHIRE (VC29): 09/07/2003, TL340524, Wimpole: Gravel Pits Field, north boundary.

Psallus perrisi (Mulsant & Rey) (Miridae)

SUFFOLK (VC26): 06/06/2015, TL8161, Ickworth Park.

Psallus wagneri Ossiannilsson (Miridae)

CAMBRIDGESHIRE (VC29): 09/07/2003, TL340524, Wimpole: Gravel Pits Field, north boundary.

Trigonotylus caelestialium (Kirkaldy) (Miridae)

CAMBRIDGESHIRE (VC29): 09/07/2003, TL352520, Wimpole: Pond Field, east boundary.

Trigonotylus ruficornis (Geoffroy) (Miridae)

CAMBRIDGESHIRE (VC29): 29/06/2011, TL557692, Wicken Fen: Adventurers' Fen: Compartment 62.

Pachycoleus waltli Fieber (Dipsocoridae)

CAMBRIDGESHIRE (VC29): 31/03/2016, TL559704, Wicken Fen: Sedge Fen: Thomson's Drove, Cmpt 18.

Saldula pallipes (Fabricius) (Saldidae)

CAMBRIDGESHIRE (VC29): 25/06/2009, TL561698, Wicken Fen: Baker's Fen: Compartment 101.

Hebrus pusillus (Fallén) (Hebridae)

CAMBRIDGESHIRE (VC29): 1963 - 1972, TL5570, Wicken Fen.

RPR is most grateful to SW for sharing his records with him and for giving permission for them to be published in this journal.

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**SOME RECORDS OF HEMIPTERA-HETEROPTERA
FOR SOUTH-EAST YORKSHIRE (VC61) FROM AN OLD COLLECTION**

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With the list for Yorkshire in the county distribution of the Hemiptera-Heteroptera (Ryan, 2014a & 2014b) recently divided into separate vice-county lists (Ryan, 2017), I decided to look through my old collection of bugs from the county of my birth to see if I could find records to fill some gaps. Most of my collecting was conducted in student summer holidays, towards a survey in the area of Kingston-upon-Hull in 1979 to 1981, which has previously been published in summary form (Ryan, 2006). This survey provided eight records for South-east Yorkshire (VC61) which are new to the county distribution, as follows.

Acanthosoma haemorrhoidale (Linnaeus) (Acanthosomatidae): 9 June 1979, SE941327, sweeping and beating along a track and dismantled railway line, The Warrens, near South Cave.

Apolygus spinolae (Meyer-Dür) (Miridae): 8 August 1979, TA021417, sweeping and beating along a dismantled railway line, Molescroft.

Campyloneura virgula (Herrich-Schaeffer) (Miridae): 31 July 1979, TA223362, sweeping and beating along a roadside verge, Flinton.

Deraeocoris ruber (Linnaeus) (Miridae): 5 August 1980, TA092321, sweeping and beating wasteground at Beresford Park, Hull.

Orthops campestris (Linnaeus) (Miridae): 29 June 1979, TA005355, sweeping and beating along a track and in a grazed field, Risby Park, near Bentley.

Psallus lepidus Fieber (Miridae): 31 July 1979, TA223362, sweeping and beating along a roadside verge, Flinton.

Trigonotylus ruficornis (Geoffroy) (Miridae): 5 August 1980, TA088302, sweeping and beating along a dismantled railway line, Beverley Road, Hull.

Tytthus pygmaeus (Zetterstedt) (Miridae): 23 July 1979, TA088325, sweeping and beating along the banks of the River Hull, Hull.

During the review of this collection, I added several species to the local list by identifying previously unidentified material (including *Psallus lepidus*). However, I also found that my specimen of *Parapsallus vitellinus* (Scholtz) (as *Plagiognathus vitellinus*), one of the most significant records of the survey, was missing; and that my whole collection of *Closterotomus norwegicus* (Gmelin) was mislabelled as *Adelphocoris lineolatus* (Goeze). I would advise anyone who consults Ryan (2006) to ignore the record for *P. vitellinus* and read *C. norwegicus* for *A. lineolatus*.

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ADDITIONAL VICE-COUNTY RECORDS FOR HEMIPTERA-HETEROPTERA FROM SOUTH HAMPSHIRE (VC11) AND NORTH HAMPSHIRE (VC12)

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Following on from the additional vice-county records from Richard Dickson (Ryan, 2016b), this note summarises further vice county records for species not included in Ryan (2016a). In all, 6 and 111 species are added to Ryan's lists for VC11 and VC12 respectively. Numbers after the species names refer to the number of tetrad records for each vice-county, up to end of 2016. *Sigara selecta* is also new for Hampshire as a whole, found in an ornamental, slightly saline pond at Eastney (SZ6899) in August 2016, as is *Metopoplax fuscinervis* Stål which was taken with *M.ditomoides* at East Worldham (SU7538) on 21.6.1996.

SOUTH HAMPSHIRE (VC11)

Lygaeidae

<i>Cymus aurescens</i> Distant	1
<i>Scolopostethus puberulus</i> Horváth	2

Miridae

<i>Camptozygum aequale</i> (Villers)	1
<i>Chlamydatus pullus</i> (Reuter)	1

Corixidae

<i>Sigara selecta</i> (Fieber)	1
<i>Corixa panzeri</i> Fieber	3

NORTH HAMPSHIRE (VC12)

Aradidae

<i>Aneurus laevis</i> (Fabricius)	6
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Cydnidae

<i>Legnotus limbosus</i> (Geoffroy)	6
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Pentatomidae

<i>Neottiglossa pusilla</i> (Gmelin)	3
<i>Rhacognathus punctatus</i> (Linnaeus)	3

Coreidae

<i>Ceraleptus lividus</i> Stein	5
<i>Leptoglossus occidentalis</i> Heidemann	2
<i>Syromastus rhombeus</i> (Linnaeus)	2

Alydidae

<i>Alydus calcaratus</i> Linnaeus	2
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Rhopalidae

<i>Myrmus miriformis</i> (Fallén)	9
<i>Stictopleurus punctattonervosus</i> (Goeze)	1

Lygaeidae

<i>Acompus rufipes</i> (Wolff)	1
<i>Cymus aurescens</i> Distant	1
<i>Cymus claviculus</i> (Fallén)	4
<i>Cymus glandicolor</i> Hahn	3
<i>Heterogaster urticae</i> (Fabricius)	16
<i>Ischnocoris angustulus</i> (Boheman)	6
<i>Kleidocerys ericae</i> (Horváth)	9
<i>Macrodema micropterum</i> (Curtis)	11
<i>Megalonotus dilatatus</i> (Herrich-Schaeffer)	3
<i>Megalonotus emarginatus</i> (Rey)	1
<i>Metopoplax fuscinervis</i> Stål	1

Lygaeidae (continued)

<i>Peritrechus geniculatus</i> (Hahn)	3
<i>Peritrechus lundii</i> (Gmelin)	2
<i>Plinthisus brevipennis</i> (Latreille)	2
<i>Scolopostethus decoratus</i> (Hahn)	11
<i>Scolopostethus puberulus</i> Horváth	2
<i>Stygnocoris fuliginus</i> (Geoffroy)	4

Berytinidae

<i>Berytinus minor</i> (Herrich-Schaeffer)	1
<i>Gampsocoris punctipes</i> (Germar)	1

Piesmatidae

<i>Piesma maculatum</i> (Laporte)	1
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Tingidae

<i>Agramma laetum</i> (Fallén)	2
<i>Chilacis typhae</i> (Perris)	3
<i>Dictyla convergens</i> (Herrich-Schaeffer)	2
<i>Kalama tricornis</i> (Schränk)	1
<i>Physatocheila dumetorum</i> (Herrich-Schaeffer)	5
<i>Stephanitis takeyai</i> Drake & Maa	3
<i>Tingis ampliata</i> (Herrich-Schaeffer)	3
<i>Tingis cardui</i> (Linnaeus)	2

Reduviidae

<i>Empicoris culiciformis</i> (De Geer)	2
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Nabidae

<i>Nabis fesus</i> (Linnaeus)	5
<i>Nabis flavomarginatus</i> Scholtz	4
<i>Nabis limbatus</i> Dahlbom	1
<i>Nabis lineatus</i> Dahlbom	4
<i>Himacerus apterus</i> (Fabricius)	25
<i>Himacerus boops</i> (Schjødte)	2
<i>Himacerus major</i> (A. Costa)	2
<i>Himacerus mirmicoides</i> (O. Costa)	30

Anthocoridae

<i>Acompocoris alpinus</i> Reuter	1
<i>Anthocoris nemoralis</i> (Fabricius)	8
<i>Anthocoris sarothamni</i> Douglas & Scott	6
<i>Temnostethus gracilis</i> Horváth	2
<i>Xylocoris cursitans</i> (Fallén)	8

Microphysidae

<i>Loricula elegantula</i> (Baerensprung)	15
<i>Loricula pselaphiformis</i> Curtis	2

Miridae

<i>Acetropis gimmerthalii</i> (Flor)	1
<i>Adelphocoris lineolatus</i> (Goeze)	1
<i>Atractotomus parvulus</i> Reuter	2
<i>Blepharidopterus angulatus</i> (Fallén)	3
<i>Brachyarthrum limitatum</i> Fieber	1
<i>Calocoris roseomaculatus</i> (De Geer)	4
<i>Camptozygum aequale</i> (Villers)	1
<i>Capsodes gothicus</i> (Linnaeus)	1
<i>Chlamydatus pullus</i> (Reuter)	1
<i>Chlamydatus saltitans</i> (Fallén)	2
<i>Conostethus roseus</i> (Fallén)	1
<i>Cyrtorhinus caricis</i> (Fallén)	2
<i>Dichroscytus rufipennis</i> (Fallén)	1

Miridae (continued)

<i>Dicyphus annulatus</i> (Wolff)	2
<i>Dicyphus globulifer</i> (Fallén)	6
<i>Dryophilocoris flavoquadrinaculatus</i> (De Geer)	32
<i>Europiella artemisiae</i> (Becker)	6
<i>Halticus luteicollis</i> (Panzer)	4
<i>Heterocordylus tibialis</i> (Hahn)	3
<i>Lopus decolor</i> (Fallén)	6
<i>Lygus pratensis</i> (Linnaeus)	1
<i>Macrotylus paykulli</i> (Fallén)	3
<i>Malacocoris chlorizans</i> (Panzer)	4
<i>Megacoelum infusum</i> (Herrich-Schaeffer)	4
<i>Megalocoleus molliculus</i> (Fallén)	3
<i>Megalocoleus tanacetii</i> (Fallén)	1
<i>Oncotylus viridiflavus</i> (Goeze)	4
<i>Orthocephalus coriaceus</i> (Fabricius)	3
<i>Orthocephalus saltator</i> (Hahn)	1
<i>Orthotylus bilineatus</i> (Fallén)	2
<i>Orthotylus ericetorum</i> (Fallén)	14
<i>Orthotylus flavosparsus</i> (C.R. Sahlberg)	1
<i>Orthotylus marginalis</i> Reuter	2
<i>Orthotylus nassatus</i> (Fabricius)	1
<i>Pantilius tunicatus</i> (Fabricius)	4
<i>Phoenicocoris obscurellus</i> (Fallén)	1
<i>Phylus coryli</i> (Linnaeus)	20
<i>Phytocoris insignis</i> Reuter	1
<i>Phytocoris tiliae</i> (Fabricius)	8
<i>Phytocoris ulmi</i> (Linnaeus)	1
<i>Phytocoris varipes</i> Boheman	9
<i>Pilophorus clavatus</i> (Linnaeus)	3
<i>Pilophorus perplexus</i> Douglas & Scott	2
<i>Pinalitus cervinus</i> (Herrich-Schaeffer)	17
<i>Platycranus bicolor</i> (Douglas & Scott)	4
<i>Polymerus palustris</i> (Reuter)	2
<i>Polymerus unifasciatus</i> (Fabricius)	2
<i>Psallus lepidus</i> (Fieber)	2
<i>Rhabdomiris striatellus</i> (Fabricius)	26
<i>Stenodema holsata</i> (Fabricius)	3
<i>Sthenarus rotermundi</i> (Scholtz)	3
<i>Strongylocoris leucocephalus</i> (Linnaeus)	1
<i>Tinicephalus hortulanus</i> (Meyer-Dür)	1
<i>Tupiocoris rhododendri</i> (Dolling)	2

Saldidae

<i>Chartoscirta cocksii</i> (Curtis)	9
<i>Saldula pallipes</i> (Fabricius)	6

Corixidae

<i>Cymatia bonsdorffii</i> (C.R. Sahlberg.)	1
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**ADDITIONAL VICE-COUNTY RECORDS FOR HEMIPTERA-HETEROPTERA
FROM SEVERAL VICE-COUNTIES**

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This note summarises additional vice-county records collected by the author for species not included in the county distribution of the Hemiptera-Heteroptera (Ryan, 2014a & 2014b).

NORTH SOMERSET (VC6)

Rhopalidae

Liorhyssus hyalinus (Fabricius): Keinton Mandeville (ST5430) 17.6.2015.

DORSET (VC9)

Miridae

Stenodema trispinosa Reuter: The Moors, Wareham (SY9486) 5.7.2009.

WEST SUSSEX (VC13)

Lygaeidae

Megalonotus chiragra (Fabricius): Sidlesham (SZ8597) 15.7.2004.

Miridae

Atractotomus mali (Meyer-Dür): Mannings Heath (TQ2028) 7.5.2014.

Megalocoleus tanaceti (Fallén): Shoreham Airport (TQ2004) 2.9.2015.

Grypocoris stysi (Wagner): Sullington Lane (TQ0913) 6.6.2003.

Deraeocoris lutescens (Schilling): Chase Wood (SU9131), 1997, and six additional sites since.

Saldidae

Saldula palustris (Douglas): Pagham Harbour (SZ89), widespread on saltmarsh areas, 1995, 2009.

EAST SUSSEX (VC14)

Lygaeidae

Megalonotus chiragra (Fabricius): Telescombe Cliffs (TQ4000), 15.7.2004, and three additional sites since.

Miridae

Deraeocoris lutescens (Schilling): Holmhurst St.Mary (TQ8012), 26.6.2002 & Bolnore (TQ3223), 5-6.2003.

SURREY (VC17)

Lygaeidae

Megalonotus chiragra (Fabricius): Numerous records since 19th Century.

Megalonotus emarginatus (Rey): Hackhurst Down (TQ0948) 6.1995.

Metopoplax fuscinervis Stål: Wrecclesham sandpit (SU8144) on 12.8.1996.

Anthocoridae

Anthocoris visci Douglas: Mitcham Common 1983 (J.A.Hollier) & Richmond Park 1984 (W.R.Dolling).

Miridae

Chlamydatius evanescens (Boheman): Kingston Cemetery (TQ1868) 2011, now widespread in at least 5 cemeteries in suburban Surrey.

Europiella artemisiae (Becker): Numerous records since at least 1935.

Lygus maritimus Wagner: Numerous records since 19th Century.

Macrolophus pygmaeus (Rambur): Box Hill 1954 (F.J.Coulson) & Falcon Wharf (TQ2676), 28.8.2014.

HERTFORDSHIRE (VC20)

Pentatomidae

Sciocoris cursitans (Fabricius): Hoddesdon Quarry (TL3809) 19.9.2011.

Lygaeidae

Megalonotus emarginatus (Rey): Hoddesdon Quarry (TL3809) 19.9.2011.

MIDDLESEX (VC21)

Acanthosomatidae

Cyphostethus tristriatus (Fabricius): Bushy Park (TQ1569), 2003-4.

Scutelleridae

Eurygaster testudinaria (Geoffroy): Staines Moor, 6-7.2009.

Tingidae

Physatocheila dumetorum (Herrich-Schaeffer): Bushy Park (TQ1569), 2003-4.

Anthocoridae

Anthocoris visci Douglas: Bushy Park (TQ1569), 2003-4.

Miridae

Miridius quadrivirgatus (A. Costa): Staines Moor (TQ0372), 5.8.2009.

Lygaeidae

Megalonotus emarginatus (Rey): Bittacy Hill (TQ2391), 9.1998.

Rhopalidae

Rhopalus subrufus (Gmelin): Bushy Park (TQ1569), 2003-4.

WEST NORFOLK (VC28)

Miridae

Miridius quadrivirgatus (A. Costa): Holkham Dunes (TF9246), 20.7.2000.

BEDFORDSHIRE (VC30)

Lygaeidae

Cymus melanocephalus Fieber: Stewartby (TL0342), 9.6.2016.

MONMOUTHSHIRE (VC35)

Pentatomidae

Dolycoris baccarum (Linnaeus): Coity Mountain (SO2110), 4.6.2001.

Miridae

Pachytomella parallela (Meyer-Dür): Coity Mountain (SO2110), 4.6.2001.

SHROPSHIRE (VC40)

Miridae

Pinalitus viscidicola (Puton): Oakley Park (SO4876), 4.9.2012.

BRECONSHIRE (VC42)

Aradidae

Aneurus avenius (Dufour): Afon Llynfi (SO1636), on accumulation of logs and tree trunks deposited by river, 7.2007.

Aradus depressus (Fabricius): Afon Llynfi (SO1636), on accumulation of logs and tree trunks deposited by river, 7.2007.

DENBIGHSHIRE (VC50)

Cydnidae

Legnotus limbosus (Geoffroy): Kimnel Bay (SH9980), 16.5.2003.

WESTMORLAND (VC69)

Aradidae

Aradus depressus (Fabricius): Burnbanks (NY5015) 7.4.1999, 1.6.2004.

Miridae

Pinalitus rubricatus (Fallén): Whale (NY5221) on larch, 12.8.1997.

Tytthus pygmaeus (Zetterstedt): Swindale (NY5212), 12.8.1997.

References

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**ADDITIONAL VICE-COUNTY RECORDS FOR HEMIPTERA-HETEROPTERA
FROM EAST KENT (VC15) AND WEST KENT (VC16)**

JONTY DENTON

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This note summarises additional vice-county records collected by the author for species not included in Ryan (2017). In all, 4 and 3 species are added to Ryan's lists for VC15 and VC16 respectively. The record for *Europiella decolor* appears to be the first for Kent as a whole.

EAST KENT (VC15)

Rhopalidae

Liorhyssus hyalinus (Fabricius): Milestone (TR1655) 11/7/2015.

Lygaeidae

Nysius huttoni F.B. White: Aylesford sandpits (TQ7259) 21.5.2016.

Nysius senecionis (Schilling): Aylesford sandpits (TQ7259) 21.5.2016.

Miridae

Europiella decolor (Uhler): Iwade Marshes (TQ9068) 7.1991, 2013.

WEST KENT (VC16)

Rhopalidae

Stictopleurus abutilon (Rossi): Belvedere (TQ5079) 1.9.2007 & M20 verge (TQ6159) 7.8.2005.

Lygaeidae

Nysius thymi (Wolff): North Woolwich (TQ4379), 28.9.2011.

Miridae

Orthops campestris (Linnaeus): Belvedere (TQ5079) 1.9.2007.

Reference

Ryan, R. P. 2017. The division of Ryan's list of Hemiptera-Heteroptera for Kent into vice-county lists for VC15 and VC16. *Hemipterist* **4**: 130-143.